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Environmental Monitoring of the Bay of Fundy Salmonid Mariculture Industry During 1988-89

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St. Andrews, N. B. E0G 2X0

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ENVIRONMENTAL MONITORING OF THE BAY OF FUNDY SALMONID MARICULTURE INDUSTRY DURING 1988-89

by

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ABSTRACT

Wildish, D. J., J. L. Martin, A. J. Wilson, and M. Ringuette. 1990. Environmental monitoring of the Bay of Fundy salmonid mariculture industry during 1988-89. Can. Tech. Rep. Fish. Aquat. Sci. 1760: iii + 123 p.

A temporal study of phytoplankton species and density beginning in May 1987 was continued at 4-17 locations during 1988 and 1989, and some of the raw data is presented herein. One species which was dominant from late July to October during 1988, but not in 1989, was the diatom *Nitzschia pseudodelicatissima*. Other dominant phytoplankton (>10^3 cells.L^{-1}) included: *Alexandrium fundyense, Scrippsiella trochoidea, Thalassosira gravida, Chaetoceros debilis, Rhizosolenia delicatula, Skelatonema costatum, Nitzschia closterium,* and *Thalassiosira nordenskioldii.* Plant nutrient concentrations in seawater were determined in 1989 for four of the sampling locations including: total phosphate, inorganic nitrate, and silicate.

Benthic studies included measurement of redox conditions near net pens and of dissolved oxygen concentrations in a part of the Letang inlet receiving pulp mill effluent. A salinity survey of the second pond in upper Letang, created by the building of a dam and exchange pipe with a one-way control, was undertaken to determine its effectiveness in preventing seawater entering the upper Letang. We also surveyed dissolved oxygen concentrations in the Black's Harbour area during a period when large amounts of fish wastes from a fish processing plant were being discharged.

RÉSUMÉ

Wildish, D. J., J. L. Martin, A. J. Wilson, and M. Ringuette. 1990. Environmental monitoring of the Bay of Fundy salmonid mariculture industry during 1988-89. Can. Tech. Rep. Fish. Aquat. Sci. 1760: iii + 123 p.

Une étude temporelle des espèces et des densités de phytoplancton qui a débuté en mai 1987 s'est poursuivie dans 4 à 17 emplacements en 1988 et 1989 et nous vous présentons ici certaines des données brutes. Une espèce qui était dominante de la fin de juillet au mois d'octobre 1988, mais non en 1989, fut la diatomée *Nitzschia pseudodelicatissima.* Parmi les autres espèces de phytoplancton dominantes (>10^3 cellules.L^{-1}), notons: *Alexandrium fundyense, Scrippsiella trochoidea, Thalassosira gravida, Chaetoceros debilis, Rhizosolenia delicatula, Skeletonema costatum, Nitzschia closterium*, et *Thalassiosira nordenskioldii.* En 1989, on a déterminé quelles étaient les concentrations d'éléments nutritifs pour les plantes dans l'eau de mer, et ce, dans quatre des emplacements d'échantillonnage, y compris la concentration totale de phosphate, de nitrate inorganique et de silicate.

Les études benthiques comprenaient la mesure des conditions d'oxydo-réduction (Redox) à proximité des parcs en filets et des concentrations d'oxygène dissous dans une partie du chenal Letang qui reçoit des effluents d'une usine de pâtes. Une étude de la salinité dans un deuxième étang du chenal supérieur Letang, étang aménagé par la construction d'un barrage et d'un tuyau échangeur - à contrôles à sens unique -, a été entreprise en vue de déterminer l'efficacité du dispositif pour empêcher l'eau de mer de pénétrer dans le chenal supérieur Letang. Nous avons également étudié les concentrations d'oxygène dissous dans la région de Black's Harbour à une période où de grandes quantités de déchets de poissons provenant d'une usine d'engrais étaient déversés dans la mer.

INTRODUCTION

By December 1989, the Bay of Fundy salmonid mariculture industry consisted of 44 farms which were operational, plus another five which had received N.B. Dept. of Fisheries and Aquaculture approval to occupy specific sites (Fig. 1). This report records ecological observations during a 2-yr period beginning in January 1988 until December 1989. As in previous reports (Wildish et al. 1986; Wildish et al. 1988), the geographic focus of sampling is the Letang/Western Isles regions of the Bay of Fundy where the salmonid mariculture industry is concentrated. We hoped that our ecological studies would be a means of determining the extent of environmental changes caused by the salmonid mariculture industry. Two major ecological changes were considered possible a priori (Wildish et al. 1990):

- site-specific benthic effects caused by the buildup of faeces and waste food. This often results in deoxygenation due to increased aerobic bacterial activity and eventually replacement by anaerobic microflora which produce compounds with high chemical oxygen demand and which may be toxic, e.g. hydrogen sulphide gas;

- nutrient enrichment of seawater caused by the microbial breakdown of wastes from salmonid culture which could stimulate a localized microalgal event with direct lethal or indirect effects on caged salmon.

An overview of the environmental monitoring and research recommended for the salmonid mariculture industry based on these two possibilities is presented elsewhere (Wildish et al. 1990). We have concentrated on the latter possibility and instituted a phytoplankton monitoring project on an industry-wide basis. We believe that if the samples can be sorted and identified soon after they are collected, some early warning of a potentially toxic bloom could be given. Our benthic studies have been limited to relatively few sites and there is an urgent need for annual, benthic monitoring at each sea pen site (Wildish et al. 1990) to aid in responsible management of the nearshore marine environment. In addition, we report on the environmental effects of two other competing industries present in the area: a pulp mill discharging into Letang and a fish processing plant at Black's Harbour, as examples of possible multiple use resource conflict with the salmonid mariculture industry.

MATERIALS AND METHODS

FIELD SAMPLING FOR PHYTOPLANKTON MONITORING PROJECT

The PANDALUS III was employed for seawater sampling. This 45-ft research vessel is equipped with an hydraulic crane winch and a set of Niskin bottles (PVC of 1.8 or 5.0 L capacity equipped with reversing thermometer) worked from a separate hydrographic winch and wire. Where possible, three depths were sampled at each station: surface (bucket), 10 m, and 1 m above the sediment-water interface. The sampling frequency aimed for was weekly in the summer to monthly in the winter. Stations sampled on each trip ranged from 4-17 (Fig. 2).

CHEMICAL OCEANOGRAPHY

A mercury thermometer (read to 0.1°C) was used to measure seawater surface temperatures and, at other depths, a reversing thermometer was used. Dissolved oxygen (DO) concentrations were determined by the azide modification of the Winkler method in 300-mL bottles. Values were expressed as a percentage of the expected DO value at the same temperature and salinity. Salinity was determined on 100-200 mL samples by measuring conductance. Values were expressed as parts per thousand (o/oo) salinity (S). Chlorophyll *a* was determined fluorometrically as in Strickland and Parsons (1968) on a 500-mL seawater sample and the results expressed as mg chlorophyll *a* per m^3. Adenosine triphosphate (ATP) was determined by firefly bioluminescence assay on 15-mL samples of seawater. The results are expressed as µg ATP/m^3 after correction for salinity carryover on the filter.

All methods used are unchanged from our earlier work (Wildish et al. 1988). A detailed presentation of the methods has been given elsewhere (Wildish et al. 1990).

PHYTOPLANKTON ANALYSIS

The method used was unchanged from 1986-87 (Wildish et al. 1988). A 200-mL seawater sample from the Niskin bottle was preserved in 2.5% formalin:acetic mixture (1:1) or 1.0% Lugol's Iodine. A 50-mL subsample was settled in a counting chamber, the plankton species identified, and cell densities counted (number of cells/L) with an inverted microscope.

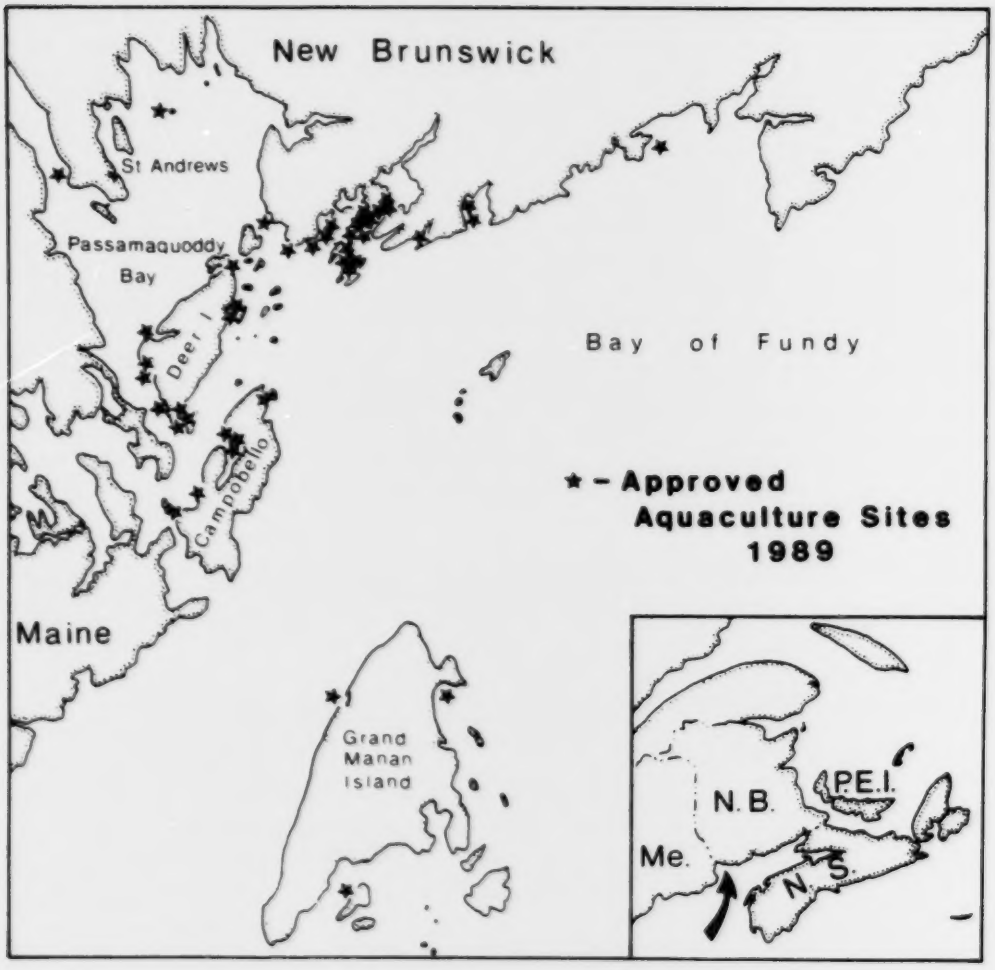

Fig. 1. Map showing the location of registered salmon farms in 1989.

PLANT NUTRIENT ANALYSIS

Plant nutrients were analyzed with a Technicon Autoanalyzer by the Physical and Chemical Sciences Branch, Bedford Institute of Oceanography. Silicate, phosphate, and nitrate were measured according to slightly modified methods in the Technicon manual (P. M. Strain, Bedford Institute of Oceanography, Dartmouth, Nova Scotia, pers. commun.). Four stations, numbers 3, 15, 16, and 17 (see Fig. 2), were analyzed for these nutrients.

SEDIMENT SAMPLING AND ANALYSIS

Sediment was sampled either with a 20-kg Kajak corer or by hand-held core liner carried by a SCUBA diver. The plastic core liner was modified by drilling at 5-cm intervals in a spiral pattern so that the tip of an Orion redox probe (#96-78) could be pushed into the sediment after removal of duct tape which covered the hole. Eh was determined as previously (Wildish et al. 1990) and the value presented as mV normal to the hydrogen electrode (NHE).

OTHER FIELD SAMPLING AND ANALYSIS

Upper Letang

In addition to transect surveys for determining dissolved oxygen concentrations downstream from the point of entry of a pulp mill effluent into Letang in early fall, we have surveyed the newly created second pond in upper Letang to determine salinity distributions. We used a small dinghy and a horizontal 1.5-L PVC bottle which could be closed by messenger. Analytical methods used were similar to those described above.

In the same dinghy, a gas sample was collected in a 500-mL bottle from the upper pond at the point at which gas bubbling was most active (Poole et al. 1976). Other samples were obtained by SCUBA diver at cage pen sites. The bottle was closed under water by means of pinch clamps on rubber hoses. The sample was stored at 0°C until gas chromatographic analysis by V. Zitko and H. M. Akagi (Marine Chemistry Division, Biological Station, St. Andrews, N. B.)

Black's Harbour area

Seawater samples were collected at various depths with 5-L capacity Niskin bottles from the J.L. HART following reports of large amounts of effluent originating from a fish meal plant at Black's Harbour utilizing imported menhaden. Temperature, salinity, and dissolved oxygen were determined by methods given above.

RESULTS

PLANT NUTRIENT ANALYSIS

Data were obtained only in 1989 (Appendix 1) for the total nitrate, phosphate, and silicate in the period from May to December.

CHEMICAL OCEANOGRAPHY

The data are shown in Appendix 2.

PHYTOPLANKTON ANALYSIS

Up to 17 stations (Fig. 2) were sampled during 1988-89. Because of the large numbers of species of phytoplankters and smaller zooplankters identified, it was found necessary to limit the species/density matrices shown here to surface samples only (Appendices 3 and 4). Those interested in the raw data from samples collected at depths other than the surface should contact the first author.

The species list for the 3-yr period 1987-89 included 179 species identified. Additional species to those found in 1987 (Wildish et al. 1988) are listed in Appendix 5.

The dominant species based on frequency of occurrence at all depths and stations sampled are compared with 1987 dominants (Table 1).

SEDIMENTARY CONDITIONS NEAR SALMONID NET PENS

Sedimentary Eh values (Table 2) show that a control station in Scotch Bay near station 1 (Fig. 2) has a uniformly aerobic sediment with no evidence of input from salmon farms or from pulp mill effluents from the landward end of Letang. Negative values at stations 7, 13, and 19 indicate the development of anaerobic microbial communities.

From transect samples at a sea pen site in Bliss Harbour and obtained by SCUBA diver (Fig. 3), we have obtained seasonal samples (Table 3). Eh values were recorded within the top 10 cm so as to avoid sampling disturbance during collection (the surface layers were "fluffy" and easily resuspended); this was usually at 5

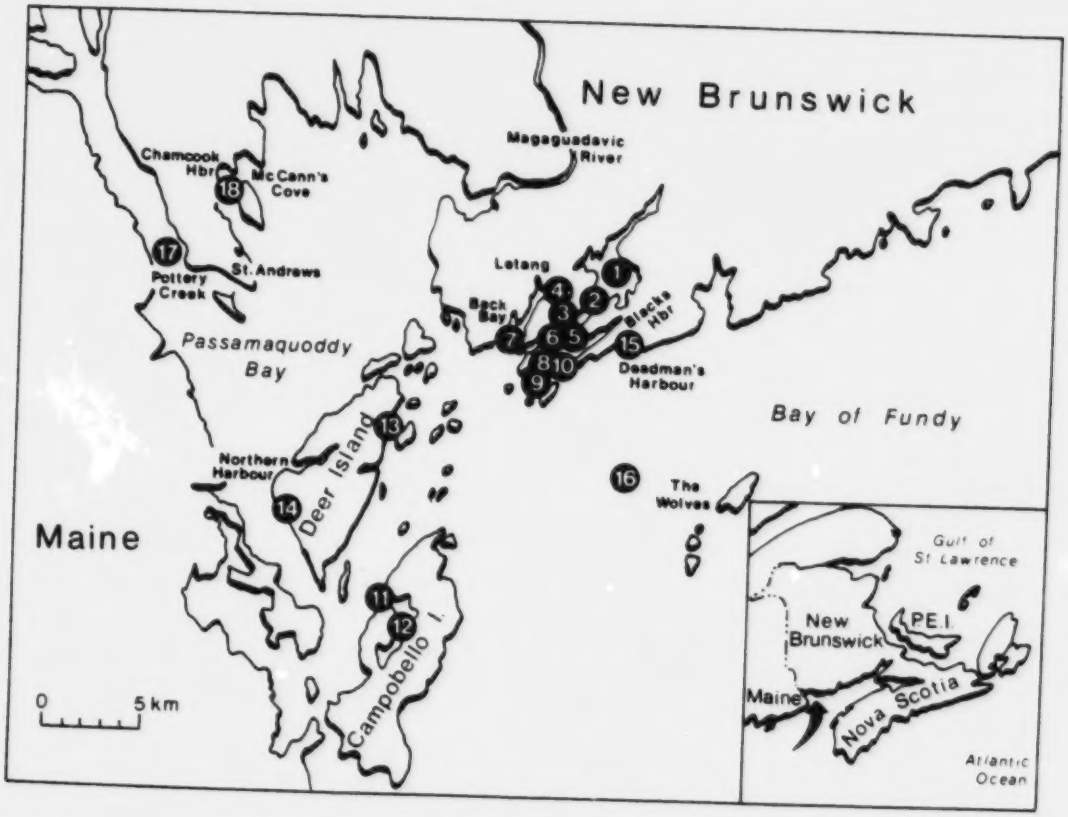

Fig. 2. Map showing station numbers sampled for phytoplankton and plant nutrients during 1988-89.

Table 1. Dominant species arranged in descending order of density as found at all stations sampled and at all depths.

1987	1988	1989
Nitzschia pseudodelicatissima	*Nitzschia pseudodelicatissima*	*Nitzschia pseudodelicatissima*
Chaetoceros sp.	*Thalassiosira gravida*	*Skeletonema costatum*
Thalassoisira gravida	*Chaetoceros debilis*	*Ceratium minutum*
Alexandrium fundyense	*Eutreptia* sp.	*Mesodinium rubrum*
Mesodinium rubrum	*Mesodinium rubrum*	*Alexandrium fundyense*
Rhizosolenia delicatula	*Peridinium* sp.	*Leptocylindrus minimus*
Chaetoceros debilis	*Chaetoceros* sp.	*Nitzschia closterium*
Peridinium sp.	*Peridinium triqueta*	*Thalassiosira gravida*
Skeletonema costatum	*Leptocylindrus minimus*	*Distephanus speculum*
Nitzschia pungens	*Thalassiosira rotula*	Tintinnids

Table 2. Values of the oxidation-reduction potential (E_{NHE} at ca. 14°C) at various depths in the core.

Sediment depth (cm)	Sea pen sites			Control
	Lime Kiln Bay	Bliss Harbour	Bliss Harbour	Scotch Bay
0	+107	-41	-11	+249
5	-56	+39	+9	+139
10	+30	+89	+69	+149
15	+189	+49	+119	+149
20	+189	+169	+119	+219
25	+169	+189	+119	+219
30	+129	+169	+179	+239
35	+229	+239	+199	+249
40	+229	+209		
45	+249			

Table 3. Seasonal redox values in mV as E_{NHE} uncorrected for sedimentary temperature at a sea pen site in Bliss Harbour.

Transect station	Dates 13.7.89	4.8.89	5.9.89	9.1.90
0	+122	+72	+158	+170
25		-143	+148	+170
50		-72	-17	
75		-133	-102	-10
100	-158	-193	-142	-5
125	-162	-153	-42	+45
150		-93	-62	+195
175		-193	-2	+55
200		-183	-112	0
225	-128	-173	-102	+120
250	-123	-173	-192	-20
275		-153	-132	+5
300		-73	-7	+65
325		-113	+58	-75
350		+2	-82	-110
375		-8	+58	-110
400		-68	-27	-110
425		-58	-67	0
450		-33	-52	-95
475		-133	-107	-25
500		-98	+188	-110
Lowest	-162	-193	-192	-110
Highest	+122	+72	+188	+195
Mean	-90	-103	-30	+8
n	5	21	21	20
Temp (°C) sediment at analysis	11.8-14.5	12-13	13.8-15.6	3.0-6.3
Seawater temp (°C)				2-3

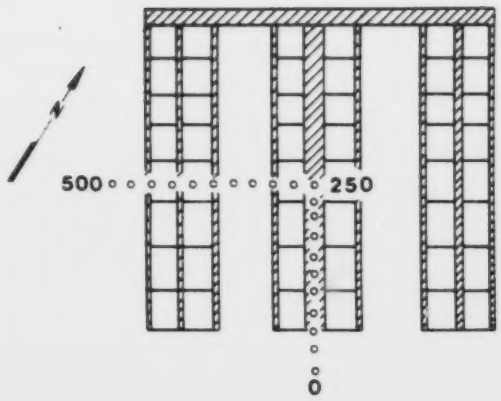

Fig. 3. Coring transect in Bliss Harbour sampled by a SCUBA diver. The 21 staked sampling points are 25 ft apart and pass through the centre of the sea-pen site. Each pen is 40 ft square.

cm depth. Mean E_{NHE} values show a decline to more negative values from July to August, but after then until early September, show a sharp change to less negative values. Thereafter, there is a slower change until in mid-winter, the mean E_{NHE} = +8. Gas samples could be collected at this site only until October (when the seawater temperature was 10.5°C) after which no further gassing occurred. The major portion of the gas was methane with small amounts of nitrogen, carbon dioxide, and hydrogen sulphide.

Similar sampling at another sea pen site on Campobello Island on 8 September 1989 showed E_{NHE} of sediments down to -160 mV and some gassing (again mostly methane). Dissolved oxygen levels of the overlying bottom seawater were 72-75% of saturation and 75-85% of saturation in the surface seawater. Although this was a relatively small site with 10 Mallock-type cages on the southern bank of Head Harbour, a mariculture sludge was present. We conclude that this is due to the shallow depths of a few metres under the net pens and the relatively poor flushing of Head Harbour.

SURVEY OF UPPER LETANG

A gas sample was collected from the original first pond receiving pulp mill effluents from the Lake Utopia mill (Wildish 1983) on 2 November 1989 (surface temperature = 10.4°C). Gases which lacked the characteristic rotten egg smell of H_2S were still bubbling to the surface and could readily be collected. The bubbling action here causes flocs of pulp fibres to rise from the bottom and float on the surface. Gas analysis of our sample showed that it consisted of methane (H. Akagi, Marine Chemistry Division, pers. commun.) with no evidence for the presence of H_2S.

Beginning in the summer of 1988 and continuing through the following winter, a causeway and dam was built at Pull-and-be-Damned Narrows indicated by Dam 2 (Fig. 4), thus creating a 'second' pond. Surface and bottom salinities were determined on 21 September 1989 along a transect in this pond and the results are shown in Table 4. Nearly full strength seawater was present in the second pond at <4.5-6.0 m depth. The seawater sampled was ca. 1 ± 0.5 m off the bottom.

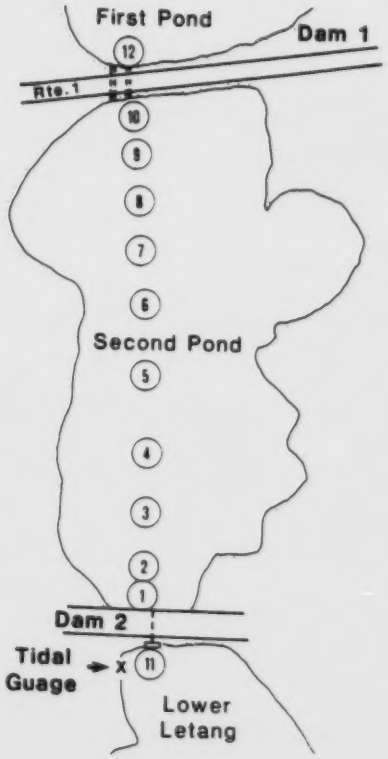

Fig. 4. The second pond in Upper Letang showing the locations sampled on 21 September 1989.

Table 4. Salinity conditions in second pond, upper Letang on 21 September 1989.

Station no.	Time DST	Depth (m)	Salinity (o/oo)
1	0950	0	1.3650
		2.5	4.6244
2	0955	0	1.3455
		6	26.5729
3	1000	0	1.5139
		5.5	1.3821
4	1005	0	1.3345
		5	1.3471
5	1010	0	1.3303
		5	1.2988
6	1015	0	1.3376
		5	12.2691
7	1020	0	1.3488
		5	27.2058
8	1025	0	1.3917
		5	18.2320
9	1027	0	1.3640
		4	19.4464
10	1030	0	1.2640
		4.5	26.4647
11	1100	0	1.7489
		0	1.7364
12	1125	0	1.1125
		0	1.2415

LW predicted at 1100 DST.

SURVEY OF BLACK'S HARBOUR AREA

During August-September 1989, concerns were expressed by salmon mariculture operators about large quantities of fish wastes entering Black's Harbour from a fish meal rendering plant. This plant received shipments of menhaden from the USA ('pogey boats') and was operating round the clock during this period. We investigated some receiving water variables to determine the effect of the effluent.

On 6-7 September 1989, the J.L. HART undertook three transect surveys in the area (Fig. 5) to determine the temperature, salinity, and dissolved oxygen content of the seawater receiving the fish plant wastes. Results (Table 5) show that within Black's Harbour itself the effects on dissolved oxygen levels near low tide were marked, particularly in surface waters. The cause of the low dissolved oxygen levels is associated with aerobic microbial respiration of the fish wastes. Outside Black's Harbour, the effects were much less noticeable due to the dilution and mixing that the wastes receive once outside the harbour. However, visual appraisal of the area showed that some of the oily wastes carried on the seawater surface reached salmon net pen sites in Bliss Harbour.

DISCUSSION

Preliminary analysis of the phytoplankton data showed that of nine species classified as dominants during the summers of 1988 and 1989, only two, *Alexandrium fundyense* and *Nitzschia pseudodelicatissima*, are known to produce toxins of potential economic importance in the marine environment. As far as we could determine, these or other unrecognized marine phycotoxins have had no effect on the Bay of Fundy salmonid culture industry during 1988 and 1989. A marked drop in both silicate and nitrate concentrations occurred in the spring of 1989 corresponding to a spring phytoplankton bloom in which diatoms were dominant and presumably utilizing these nutrients. Nutrient concentrations during the *Chrysochromulina*

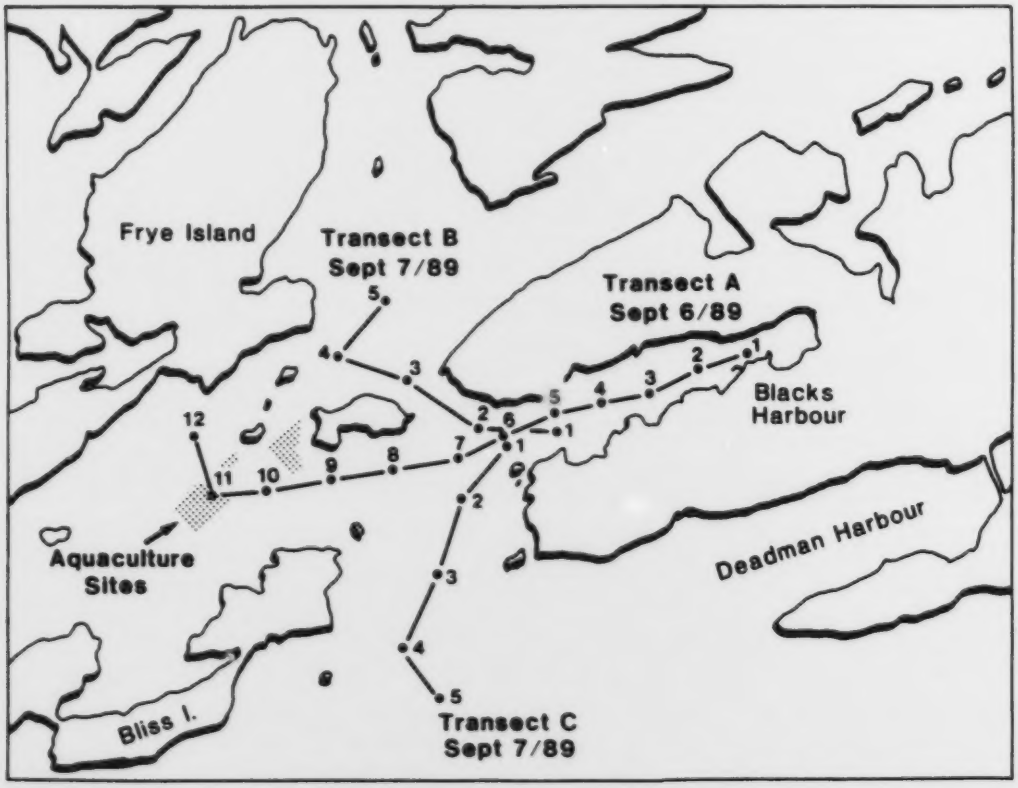

Fig. 5. Black's Harbour transects: A, B, and C and stations (numbered) sampled on 6-7 September 1989 from the J.L. HART.

Table 5. Seawater dissolved oxygen (DO) in the Black's Harbour area along three transects sampled on 6-7 September 1989.

Stn #		Time (min) + or - LW	Depth (m)	Temp (°C)	% DO sat.	Salinity o/oo
Transect A - 6 September 1989.						
A1	Surface	+10		13.1	0	32.2
	Bottom		3.5	13.5	8.9	32.4
A2	Surface	+26		13.2	0	32.2
	Bottom		4.8	12.9	38.8	32.3
A3	Surface	+35		13.0	14.4	32.2
	Bottom		6.9	12.5	79.0	32.3
A4	Surface	+46		14.0	0	32.2
	Bottom		7.7	12.5	75.0	32.3
A5	Surface	+58		13.7	2.6	32.2
	Bottom		12.0	12.5	84.7	32.3
A6	Surface	+71		12.4	90.4	32.3
	Bottom		19.0	12.2	87.6	32.3
A7	Surface	+135		12.5	94.8	32.3
	Bottom		23.0	12.6	96.7	32.3
A8	Surface	+145		12.9	96.6	32.3
	Bottom		23.0	12.2	94.9	32.3
A9	Surface	+156		13.2	98.5	32.3
	Bottom		22.0	12.0	94.9	32.3
A10	Surface	+169		13.2	98.9	32.3
	Bottom		16 to 7.5	12.1	95.1	32.3
A11	Surface	+180		12.7	98.9	32.3
	Bottom		14.0	12.1	95.3	32.3
A12	Surface	+200		13.0	94.0	32.3
	Bottom		10.0	12.5	95.9	32.3
Transect A - 7 September 1989.						
A11	Surface	0		13.5	101.7	32.3
	Bottom		12.0	12.4	99.3	32.3
A12	Surface	+12		13.0	96.9	32.3
	Bottom		8.0	12.5	80.1	32.3

Table 5. (cont'd)

Stn #	Time (min) + or - LW	Depth (m)	Temp (°C)	% DO sat.	Salinity o/oo
Transect B					
B1 Surface	-25		13.4	6.0	32.3
Bottom		11.0	12.7	84.9	32.3
B2 Surface	-14		12.6	81.4	32.3
Bottom		24.0	12.3	97.0	32.3
B3 Surface	+35		12.7	81.2	32.3
Bottom		24.0	12.4	77.0	32.3
B4 Surface	+47		13.0	83.2	32.3
Bottom		17.0	12.6	74.5	32.3
B5 Surface	+90		13.4	80.5	32.2
Bottom		19.0	12.6	81.2	32.3
Transect C					
C1 Surface	+105		12.8	77.0	32.3
Bottom		14.0	12.5	76.2	32.3
C2 Surface	+116		12.9	82.1	32.3
Bottom		22.0	12.0	85.6	32.3
C3 Surface	+126		12.8	80.4	32.3
Bottom		29.0	11.9	86.5	32.4
C4 Surface	+135		13.0	93.6	32.3
Bottom		32.0	11.8	86.4	32.4
C5 Surface	+157		12.8	95.5	32.3
Bottom		30.0	12.0	85.9	32.4

polylepis bloom off southern Norway in 1988 which killed cultured salmon are available for comparison (Skjoldal and Dundas 1989). Many environmental factors, oceanographic, chemical, and biological - inclusive of microbiological mediators which stimulate or inhibit phytoplankton (Aubert 1990) - are involved in bloom events. Estep and MacIntyre (1989) have proposed that *C. polylepis*' strategy is to produce haemolysin-like toxins which cause cell membrane dysfunction and cell leaking of target organisms, so that they can then utilize the released nutrients. Major sources of nitrate possibly contributing to eutrophication, in addition to salmonid aquaculture, include municipal sewage and fish processing plants. Large inputs of nutrients can also be expected in the spring freshets, particularly from the Saint John and St. Croix estuaries. Values of nitrate measured do not indicate hypernutrification in any of these sources.

During a temporal study of redox values at one net pen site, Eh values became progressively more negative until August 1989. This indicated a progressive development of anaerobiosis by sulphate reducing and methanogenic bacteria. By early September 1989, the Eh began to increase again until, by mid-winter, the average E_{NHE} = +8 mV. The termination of anaerobiosis in late summer may be due to a buildup in the sediments of toxic levels of H_2S gas which effectively killed the anaerobic microbiota. Gas production at sea pen sites had markedly slowed by September and, by October, it was impossible to obtain a sample, indicating that gas had been purged from the sediments. Seawater temperatures had not declined by October and it was considered to be unlikely that temperature was regulating anaerobiosis as supposed in the sediments under a salmon farm in Scotland (Brown et al. 1987). Parkes and Poole (1976) first noted that toxic levels of sulphide, which killed anaerobes, including sulphate-reducing bacteria, were reached in late summer in pulp fibre polluted sediments. Where mariculture sludge was present under Bay of Fundy salmon farms, it was colonized by *Beggiatoa*-like mats during summer months. This bacterium oxidizes H_2S as an energy source and is present only where there is a sharp interface between oxic seawater and anoxic sediment in which sulphate reduction is occurring. If the seawater becomes deoxygenated, the *Beggiatoa* disappears and a turbid layer may be present (Lumb and Fowler 1989). The absence of sulphide in sediments during winter may mean that *Beggiatoa* disappears or is at least metabolically inactive then. Many of the core samples taken during the winter had many small worms present (*Capitella capitata*) and on microscopic examination of surface sediments was extremely rich in ciliates and free living nematodes. At these locations in summer, the redox discontinuity layer had reached the sediment surface and the sediments were azoic.

Further evidence for the sulphide poisoning hypothesis is that gas production in the first pond of upper Letang was still active in November - presumably this station had not undergone a lethal buildup of sulphide. If this interpretation is correct, it is evidence that the newly built dam 2 at Pull-and-be-Damned Narrows is effective in preventing seawater entry. The presence of nearly full strength seawater in the deepest parts of the newly created second pond in upper Letang could be due either to hydraulic conditions which did not allow seawater to drain into lower Letang at the bed log settings used and/or seepage across the dam at high tide which ensured that the seawater was regularly replenished. At the time of spring freshets, an attempt should be made to flush seawater from the second pond. The dam and one-way flap gate were constructed to limit seawater entry to upper Letang which, in time, should become a completely freshwater system. The overall purpose was to remove seawater with its high content of sulphate which had been utilized by some anaerobic bacteria as an electron acceptor producing the offensive gas H_2S as a byproduct.

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APPENDIX 1. Plant nutrient concentrations in µg/L in seawater during 1989 at stations 3, 15, 16, and 17.

STN #3

	SILICATES		PHOSPHATES		NITRATES	
DATE	SURF	BTM	SURF	BTM	SURF	BTM
24/05/89	8.3	7.38	0.78	0.84	7.17	8.02
12/07/89	3.25	3.38	0.747	0.668	3.45	4.18
18/07/89	3.29	2.99	0.716	0.574	2.33	1.94
26/07/89	5.609	4.762	0.91	0.678	4.439	4.335
02/08/89	4.38	4.332	0.721	0.648	3.437	3.352
09/08/89	4.934	5.981	0.793	0.791	3.922	4.39
16/08/89	2.855	3.567	0.562	0.534	2.428	3.184
23/08/89	6.75	5.775	0.917	0.768	5.333	5.108
30/08/89	3.152	4.141	0.612	0.551	2.931	3.873
06/09/89	8.097	7.696	1.061	0.971	6.982	6.869
13/09/89	4.147	4.525	0.716	0.673	2.707	2.894
20/09/89	2.702	2.988	0.783	0.681	2.382	2.438
27/09/89	3.125	4.02	0.679	0.633	3.079	3.759
05/10/89	8.931	6.254	0.989	0.778	9.083	6.018
11/10/89	10.39	10.044	1.143	1.038	9.704	9.891
18/10/89	4.793	9.758	0.712	1.014	4.333	8.903
25/10/89	10.914	5.394	1.083	0.766	9.476	4.877
07/11/89	5.41	11.66	1.173	1.239	3.792	10.852
20/11/89	8.064	11.387	0.848	1.071	6.671	10.547
12/12/89	7.783	5.422	0.925	0.63	8.576	5.466

STN #15

	SILICATES		PHOSPHATES		NITRATES	
DATE	SURF	BTM	SURF	BTM	SURF	BTM
24/05/89	8.57	8.03	0.67	0.8	7.5	7.79
12/07/89	1.99	2.4	0.482	0.556	1.44	2.96
18/07/89	2.08	2.47	0.494	0.487	0.27	0.82
26/07/89	3.738	3.578	0.694	0.589	2.757	3.066
02/08/89	3.269	4.061	0.488	0.618	0.313	3.16
09/08/89	4.61	4.524	0.714	0.725	3.254	3.723
16/08/89	2.241	3.59	0.472	0.638	1.735	3.244
23/08/89	5.425	5.601	0.855	0.729	4.503	5.123
30/08/89	4.117	6.811	0.573	0.793	3.112	6.319
06/09/89	6.762	7.124	0.798	0.747	5.649	6.506
13/09/89	0.155	0.405	0.325	0.283	-0.035	-0.063
20/09/89	0.902	5.071	0.456	0.515	0.674	2.98
27/09/89	5.86	8.384	0.819	0.882	5.794	8.085
05/10/89	10.407	8.864	1.073	0.875	10.063	8.366
11/10/89	9.039	5.489	0.929	0.707	8.535	5.293
18/10/89	8.923	5.734	0.945	0.686	8.209	4.977
25/10/89	5.076		0.729		4.29	
07/11/89	10.222	4.405	0.984	0.647	9.12	3.934
20/11/89	5.419	11.372	0.752	1.008	5.163	10.757
12/12/89	4.116	7.568	0.678	0.699	4.241	6.833

APPENDIX 1. (cont'd)

STN #16

DATE	SILICATES SURF	SILICATES 10m	SILICATES 25m	SILICATES 50m	PHOSPHATES SURF	PHOSPHATES 10m	PHOSPHATES 25m	PHOSPHATES 50m	NITRATES SURF	NITRATES 10m	NITRATES 25m	NITRATES 50m
24/05/89	7.34	7.29	7.36	7.06	0.76	0.76	0.83	0.84	7.16	7.7	7.99	8.02
07/12/89	1.7	1.64	3.26	4.89	0.499	0.444	0.582	0.799	1.4	1.4	4.01	6.77
18/07/89	2.44	3.09	3.48	4.8	0.52	0.576	0.647	0.695	1.58	3.53	4.26	6.6
26/07/89	2.876	3.861	5.201	6.558	0.499	0.589	0.721	0.837	2.244	4.372	6.397	8.057
08/09/89	3.862	3.906	3.837	5.828	0.566	0.56	0.561	0.712	3.863	3.888	4.58	6.549
16/08/89	1.738	4.025	2.165	4.691	0.299	0.576	0.437	0.685	1.542	4.405	2.746	6.425
23/08/89	4.492	4.61	5.473	6.963	0.656	0.627	0.686	0.769	4.239	5.033	6.639	8.035
30/08/89	5.76	3.502	3.62	7.519	0.694	0.511	0.561	0.875	4.858	4.087	4.546	10.018
02/09/89	2.283	2.143	3.536	5.279	0.532	0.423	0.69	0.745	0.995	1.524	4.415	6.759
06/09/89	6.448	6.453	6.532	7.957	0.792	0.712	0.814	0.846	6.012	6.622	7.224	8.837
13/09/89	0.892	2.002	7.097	8.866	0.357	0.379	0.774	0.918	0.037	0.217	7.351	10.945
20/09/89	0.386	2.258	4.971	7.045	0.889	0.329	0.534	0.653	0.115	2.966	3.856	6.498
10/05/89	3.922	8.482	8.467	4.379	0.676	0.863	0.882	0.601	4.643	9.402	9.52	5.151
25/10/89	9.802	9.826	9.767	8.275	1.021	0.98	0.964	0.938	10.342	10.164	10.425	9.163
11/07/89	5.447	9.719	9.703	3.93	0.834	0.922	0.925	0.64	5.345	9.604	9.696	3.84

APPENDIX 1. (cont'd)

STN #17

	SILICATES		PHOSPHATE		NITRATES	
DATE	SURF	BTM	SURF	BTM	SURF	BTM
24/05/89	13.02	9.07	0.34	0.72	2.7	7.13
12/07/89	3.98	2.23	0.743	0.502	4.21	2.98
18/07/89	3.67	2.92	0.61	0.605	3.85	3.06
26/07/89	4.652	3.731	0.652	0.586	3.512	2.272
02/08/89	5.205	5.046	0.627	0.589	3.471	3.542
09/08/89	4.645	3.926	0.555	0.537	3.359	3.001
16/08/89	3.172	2.15	0.551	0.406	1.163	0.761
30/08/89	7.918	5.804	0.821	0.614	5.774	4.793
06/09/89	8.975	8.815	0.938	0.856	6.787	7.313
13/09/89	7.968	7.249	0.837	0.743	5.181	5.473
20/09/89	5.937	6.572	0.702	0.659	4.025	4.288
27/09/89	6.253	8.274	0.755	0.883	4.828	6.301
05/10/89	8.377	8.524	1.074	0.933	7.661	6.563
11/10/89	4.335	11.807	0.662	0.892	3.982	9.041
18/10/89	10.86	7.041	1.032	0.764	9.817	6.274
25/10/89	8.487	11.541	0.823	1.009	6.089	10.351
07/11/89	7.378	11.514	0.821	1.001	5.988	10.652
20/11/89	12.073	11.566	1.066	1.019	10.948	10.905
12/12/89	11.388	8.682	0.983	0.879	10.032	7.548

Where values of 0.0 are given, sampling or analysis was not done.

Appendix 2. Chemical oceanographic data obtained during phytoplankton sampling at 4-17 stations during 1988 and 1989.

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 1						
88 1 20	0 m	1.5	10.36	91.8	31.81	0.319
	10 m	2.3	10.52	95.2	31.98	0.284
	Btm	2.4	10.67	96.9	32.03	0.321
88 3 16	0 m	1.8	10.51	93.9	31.78	0.257
	10 m	1.9	10.60	94.7	31.71	0.235
88 5 25	0 m	8.2	8.37	86.6	30.52	0.660
	10 m	7.3	9.27	94.0	30.77	0.748
	Btm	7.4	9.78	99.4	30.89	1.326
88 6 1	0 m	8.0	10.27	105.9	30.88	5.120
	10 m	6.5	11.43	114.0	30.99	5.220
	Btm	7.4	11.24	114.4	30.99	5.240
88 6 7	0 m	8.0	11.67	120.6	31.11	0.680
	10 m	7.8	9.02	92.8	31.14	0.770
88 6 14	0 m	9.5	11.14	119.4	31.37	0.550
	10 m	8.1	12.19	126.5	31.42	0.560
	Btm	7.8	12.04	124.1	31.46	0.570
88 6 22	0 m	12.0	10.32	116.5	31.31	0.200
	10 m	8.9	11.51	121.6	31.48	0.250
88 6 28	0 m	10.7	9.94	110.8	33.59	0.170
	10 m	9.4	9.56	103.6	33.59	0.220
88 7 5	0 m	11.5	7.82	87.3	31.20	0.070
	10 m	10.3	8.62	93.9	31.31	0.050
88 7 12	0 m	11.5	8.24	92.3	31.49	0.130
	10 m	10.7	8.67	95.4	31.54	0.070
	Btm	9.9	9.06	98.0	31.59	0.050
88 7 19	0 m	13.0	7.46	86.2	31.43	0.060
	10 m	11.7	8.22	92.4	31.47	0.020
88 7 28	0 m	12.8	8.36	96.0	31.07	0.030
	10 m	12.0	8.92	100.7	31.17	0.040
	Btm	12.0	9.09	102.8	31.22	0.040
88 8 2	0 m	12.8	8.78	101.0	31.45	0.040
	10 m	11.0	9.07	100.4	31.55	0.020
	Btm	10.9	9.15	101.0	31.58	0.020
88 8 9	0 m	14.4	7.67	91.2	31.50	0.150
	10 m	11.4	8.92	99.8	31.75	0.040
88 8 16	0 m	12.9	8.22	94.8	31.56	0.100
	10 m	12.1	8.62	97.9	31.69	0.040
88 8 23	0 m	13.1	7.46	86.4	31.69	0.070
	10 m	11.8	8.11	91.5	31.84	0.030
88 8 30	0 m	12.8	8.36	96.2	31.37	0.060
	10 m	12.0	8.34	94.4	31.64	0.060
	Btm	11.7	11.16	125.6	31.77	0.070
88 9 6	0 m	12.3	9.52	108.3	31.30	0.090
	10 m	12.0	8.40	95.2	31.61	0.020
88 9 13	0 m	11.6	6.25	70.4	32.13	0.070
	10 m	11.3	6.38	71.4	32.16	0.050
88 9 21	0 m	12.0	9.36	106.3	32.09	0.050
	10 m	11.3	7.08	79.4	32.14	0.040
88 9 27	0 m	11.5	8.11	91.3	32.32	0.060
	10 m	11.1	8.12	90.5	32.29	0.080
88 10 4	0 m	11.2	7.53	83.1	32.28	0.040
	10 m	11.5	7.85	87.5	32.36	0.040
88 10 11	0 m	10.3	0.00	0.0	32.44	0.040
	10 m	10.3	0.00	0.0	32.43	0.030
88 10 18	0 m	10.0	7.85	85.6	32.38	0.030

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (°/₀₀)	Chl a(µg/L)
Station 1						
	10 m	10.0	8.07	88.0	32.48	0.020
88 10 25	0 m	10.0	8.83	96.2	32.39	0.040
	10 m	9.9	8.81	95.8	32.40	0.030
88 11 8	0 m	9.2	8.46	90.3	31.89	0.070
	10 m	9.5	8.42	90.6	32.07	0.040
	Btm	10.0	8.54	92.9	32.12	0.030
88 12 1	0 m	6.5	8.17	81.9	31.64	0.020
	10 m	6.8	8.57	86.7	31.98	0.020
88 12 8	0 m	5.8	8.94	88.4	32.36	0.020
	10 m	6.9	8.58	87.1	32.36	0.020
	Btm	6.4	8.69	87.2	32.37	0.030
89 1 19	0 m	1.9	10.36	93.0	32.37	0.020
	10 m	2.0	10.44	94.0	32.39	0.020
89 2 2	0 m	0.8	10.95	95.7	32.27	0.020
	10 m	0.8	11.02	96.1	32.30	0.020
	Btm	1.4	0.00	0.0	0.00	0.000
89 3 15	0 m	1.0	10.95	95.7	31.87	0.020
	10 m	0.7	11.08	96.2	31.98	0.020
89 8 10	0 m	14.5	0.00	0.0	31.73	0.000
	10 m	14.0	0.00	0.0	31.87	0.000
89 8 17	0 m	14.1	0.00	0.0	31.66	0.000
	10 m	15.6	0.00	0.0	31.76	0.000
89 8 23	0 m	13.8	0.00	0.0	31.96	0.000
	10 m	0.0	0.00	0.0	31.93	0.000
89 8 30	0 m	12.9	0.00	0.0	32.11	0.000
	10 m	13.7	0.00	0.0	32.16	0.000
89 9 6	0 m	13.1	0.00	0.0	32.19	0.000
	10 m	13.5	0.00	0.0	32.22	0.000
89 9 13	0 m	14.2	0.00	0.0	32.16	0.000
	10 m	15.2	0.00	0.0	32.13	0.000
89 9 20	0 m	13.0	0.00	0.0	32.11	0.000
	10 m	13.9	0.00	0.0	32.24	0.000
89 9 27	0 m	11.8	0.00	0.0	32.22	0.000
	10 m	13.4	0.00	0.0	32.28	0.000
89 10 11	0 m	10.2	0.00	0.0	32.37	0.000
	10 m	10.5	0.00	0.0	32.57	0.000
89 10 18	0 m	9.6	0.00	0.0	32.47	0.000
	10 m	8.7	0.00	0.0	32.46	0.000
89 10 25	0 m	10.1	0.00	0.0	32.04	0.000
	10 m	16.5	0.00	0.0	32.54	0.000
89 11 7	0 m	9.7	0.00	0.0	32.74	0.000
	10 m	11.8	0.00	0.0	32.17	0.000
89 11 20	0 m	8.3	0.00	0.0	31.84	0.000
	10 m	6.8	0.00	0.0	31.97	0.000
89 12 12	0 m	3.8	0.00	0.0	32.66	0.000
	10 m	4.5	0.00	0.0	32.50	0.000

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 2						
88 1 20	0 m	2.2	11.20	101.2	32.11	0.368
	10 m	2.6	10.60	96.7	32.08	0.297
	Btm	2.6	11.42	104.2	32.10	0.331
88 3 16	0 m	1.8	10.60	94.5	31.74	0.169
	10 m	1.8	10.77	96.0	31.73	0.200
88 5 11	0 m	6.2	11.34	0.0	0.00	0.000
	10 m	5.3	12.07	0.0	0.00	0.000
88 5 25	0 m	8.2	8.71	89.9	30.55	1.793
	10 m	7.6	1.70	17.4	30.75	0.641
	Btm	7.7	3.65	37.5	31.13	0.445
88 6 1	0 m	7.5	10.95	111.9	31.01	0.685
	10 m	6.9	11.54	116.1	31.01	0.527
	Btm	7.1	11.07	112.1	31.07	0.683
88 6 7	0 m	8.3	10.18	106.0	31.13	0.610
	10 m	7.7	10.61	109.0	31.15	0.660
	Btm	7.7	10.18	104.6	31.15	0.770
88 6 14	0 m	8.9	12.55	132.6	31.50	0.630
	10 m	7.6	11.29	115.8	31.48	0.540
	Btm	7.3	9.11	92.9	31.50	0.680
88 6 22	0 m	12.0	10.27	116.1	31.29	0.210
	10 m	9.6	11.40	122.2	31.45	0.300
	Btm	9.0	10.25	108.6	31.50	0.340
88 6 28	0 m	10.9	10.99	122.8	33.44	0.200
	10 m	9.9	10.47	114.6	33.45	0.230
	Btm	9.1	11.61	125.0	33.68	0.270
88 7 5	0 m	11.8	8.57	96.3	31.26	0.030
	10 m	10.5	8.81	96.5	31.33	0.060
88 7 12	0 m	10.7	8.94	98.3	31.59	0.060
	10 m	9.7	9.17	98.8	31.62	0.070
	Btm	9.4	9.41	100.7	31.63	0.080
88 7 19	0 m	13.0	7.53	86.9	31.46	0.060
	10 m	11.7	8.03	90.4	31.49	0.020
	Btm	10.9	8.17	90.3	31.56	0.000
88 7 28	0 m	11.4	9.33	104.2	31.29	0.050
	10 m	11.2	9.48	105.3	31.28	0.050
	Btm	11.3	9.69	108.0	31.29	0.040
88 8 9	0 m	12.8	8.51	97.9	31.65	0.080
	10 m	13.0	8.84	102.3	31.73	0.040
	Btm	11.2	8.79	97.8	31.78	0.040
88 8 16	0 m	12.4	8.18	93.4	31.63	0.060
	10 m	12.1	8.44	95.8	31.68	0.050
	Btm	11.8	8.68	97.9	31.72	0.050
88 8 23	0 m	12.7	7.96	91.4	31.78	0.070
	10 m	11.9	8.19	92.5	31.82	0.020
	Btm	11.8	8.06	91.1	31.85	0.040
88 8 30	0 m	11.7	8.20	92.4	31.80	0.060
	10 m	11.5	8.94	100.3	31.86	0.060
	Btm	11.3	8.80	98.3	31.91	0.070
88 9 6	0 m	12.1	8.74	99.1	31.51	0.080
	10 m	11.8	7.87	88.8	31.90	0.040
	Btm	11.6	10.24	115.2	31.90	0.040
88 9 13	0 m	11.3	6.44	72.1	32.21	0.070
	10 m	11.2	6.18	69.0	32.21	0.060
	Btm	11.5	6.35	71.4	32.24	0.070
88 9 21	0 m	11.8	8.00	90.5	32.13	0.080

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 2						
	10 m	11.3	7.93	88.7	32.20	0.070
	Btm	11.6	7.85	88.4	32.20	0.080
88 9 27	0 m	11.4	8.21	92.2	32.33	0.080
	10 m	11.2	8.13	90.9	32.33	0.080
	Btm	11.1	8.22	91.8	32.35	0.100
88 10 4	0 m	11.3	7.27	81.4	32.25	0.060
	10 m	11.5	7.69	86.6	32.31	0.040
	Btm	11.4	7.72	86.6	32.33	0.040
88 10 11	0 m	10.3	0.00	0.0	32.47	0.040
	10 m	10.3	0.00	0.0	32.47	0.040
	Btm	10.1	0.00	0.0	32.42	0.040
88 10 18	0 m	10.0	8.16	89.1	32.46	0.040
	10 m	9.8	8.03	87.4	32.46	0.030
	Btm	9.9	8.04	87.6	32.52	0.030
88 10 25	0 m	10.5	9.04	99.6	32.45	0.040
	10 m	12.7	9.06	104.9	32.43	0.040
	Btm	10.0	8.96	97.7	32.43	0.050
88 11 8	0 m	9.5	8.88	95.7	32.34	0.050
	10 m	10.0	8.65	94.2	32.16	0.060
	Btm	9.5	8.94	96.3	32.29	0.040
88 12 1	0 m	6.4	8.42	84.4	31.71	0.030
	10 m	7.9	8.58	89.2	31.99	0.020
	Btm	7.1	8.82	89.4	31.16	0.030
88 12 8	0 m	6.0	8.79	87.4	32.52	0.020
	10 m	6.4	8.94	90.1	32.57	0.030
	Btm	6.5	8.89	89.6	32.59	0.030
89 1 19	0 m	2.0	10.48	94.7	32.45	0.020
	10 m	1.9	10.68	96.0	32.48	0.030
	Btm	2.2	10.56	95.6	32.50	0.020
89 2 7	0 m	0.9	11.23	98.3	32.29	0.030
	10 m	1.1	11.20	98.4	32.22	0.020
	Btm	0.9	11.21	97.9	32.22	0.020
89 3 15	0 m	0.9	11.29	98.5	31.93	0.000
	10 m	0.7	11.36	98.7	32.00	0.000
	Btm	0.9	11.40	99.6	32.01	0.020

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 3						
88 1 20	0 m	2.3	10.60	96.0	32.11	0.319
	10 m	2.6	11.39	104.0	32.11	0.277
	Btm	2.6	10.94	99.8	32.10	0.276
88 3 16	0 m	1.8	10.84	96.8	31.88	0.259
	10 m	2.1	10.78	97.0	31.85	0.257
88 5 11	0 m	5.6	11.78	0.0	0.00	0.000
	10 m	4.9	12.37	0.0	0.00	0.000
	Btm	4.7	12.09	0.0	0.00	0.000
88 5 25	0 m	7.0	10.49	105.8	30.91	1.841
	10 m	6.5	10.57	105.4	30.99	1.375
	Btm	5.5	10.62	103.7	31.35	0.744
88 6 1	0 m	7.0	11.45	115.4	31.09	5.750
	10 m	6.8	11.20	112.5	31.04	4.750
	Btm	6.8	11.47	115.3	31.07	5.710
88 6 7	0 m	8.0	10.78	111.3	31.20	0.670
	10 m	7.4	11.33	115.5	31.28	0.670
	Btm	6.9	11.26	113.7	31.35	0.670
88 6 14	0 m	8.4	12.14	126.8	31.51	0.570
	10 m	7.5	11.09	113.4	31.53	0.430
	Btm	7.2	11.30	115.0	31.50	0.590
88 6 22	0 m	11.9	10.27	115.9	31.38	0.200
	10 m	8.7	12.06	126.9	31.51	0.360
	Btm	7.9	12.05	124.9	31.55	0.460
88 6 28	0 m	11.0	10.30	115.6	33.54	0.300
	10 m	9.3	10.27	111.0	33.56	0.360
	Btm	8.5	11.13	118.2	33.63	0.470
88 7 5	0 m	10.8	9.06	99.8	31.37	0.070
	10 m	9.7	9.37	100.9	31.44	0.090
	Btm	9.1	9.83	104.4	31.54	0.110
88 7 12	0 m	10.2	9.41	102.6	31.63	0.080
	10 m	9.6	9.02	96.8	31.62	0.090
	Btm	9.2	9.75	103.9	31.66	0.080
88 7 19	0 m	11.8	8.93	100.7	31.56	0.060
	10 m	10.6	7.69	84.6	31.60	0.030
	Btm	10.4	9.42	103.0	31.65	0.030
88 7 28	0 m	0.0	9.59	0.0	31.36	0.040
	10 m	10.8	9.73	107.2	31.33	0.040
	Btm	10.7	9.83	107.9	31.36	0.040
88 8 2	0 m	11.2	9.15	101.7	31.56	0.040
	10 m	10.8	9.20	101.5	31.60	0.030
	Btm	10.5	9.32	102.2	31.68	0.040
88 8 9	0 m	11.9	9.35	105.7	31.84	0.100
	10 m	11.0	9.52	105.6	31.80	0.080
	Btm	10.7	5.88	64.7	31.84	0.050
88 8 16	0 m	12.8	8.49	97.9	31.64	0.100
	10 m	12.0	8.65	98.1	31.72	0.050
	Btm	11.7	8.71	98.0	31.78	0.050
88 8 23	0 m	11.8	8.28	93.5	31.93	0.050
	10 m	11.3	8.52	95.3	31.91	0.040
	Btm	11.3	8.75	97.8	31.92	0.050
88 8 30	0 m	11.8	10.01	113.0	31.77	0.070
	10 m	11.6	10.89	122.5	31.83	0.060
	Btm	11.5	8.85	99.4	31.86	0.060
88 9 6	0 m	11.9	10.04	113.4	31.42	0.130
	10 m	11.5	9.24	103.7	31.92	0.050

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 3						
	Btm	11.5	8.72	98.0	31.97	0.040
88 9 13	0 m	11.0	6.57	73.1	32.25	0.090
	10 m	11.1	6.54	73.0	32.25	0.080
	Btm	11.1	6.62	74.0	32.25	0.090
88 9 21	0 m	11.5	7.46	84.0	32.23	0.170
	10 m	11.4	8.17	91.7	32.24	0.120
	Btm	11.3	8.93	100.2	32.33	0.200
88 9 27	0 m	11.2	8.29	92.8	32.35	0.080
	10 m	11.3	8.26	92.6	32.35	0.090
	Btm	11.1	8.24	92.0	32.36	0.090
88 10 4	0 m	11.0	7.99	88.9	32.44	0.060
	10 m	11.2	7.96	89.1	32.45	0.050
	Btm	0.0	7.92	0.0	32.49	0.050
88 10 11	0 m	10.3	8.82	96.9	32.50	0.050
	10 m	10.4	8.74	96.2	32.44	0.060
	Btm	10.2	8.65	94.7	32.45	0.040
88 10 18	0 m	9.8	8.26	89.5	32.52	0.040
	10 m	9.9	8.32	90.6	32.52	0.030
	Btm	10.0	8.39	91.7	32.62	0.040
88 10 25	0 m	10.0	8.93	97.3	32.43	0.050
	10 m	10.1	9.02	98.6	32.46	0.050
	Btm	10.1	9.04	98.7	32.31	0.040
88 11 8	0 m	9.5	9.04	97.4	32.34	0.050
	10 m	9.6	9.00	97.2	32.34	0.040
	Btm	10.0	9.00	98.1	32.42	0.040
88 12 1	0 m	6.8	8.73	88.5	32.04	0.020
	10 m	7.5	8.92	91.8	32.20	0.030
	Btm	0.0	9.12	0.0	32.43	0.030
88 12 8	0 m	6.5	8.95	90.2	32.72	0.020
	10 m	6.3	8.89	89.2	32.61	0.020
	Btm	6.5	8.99	90.6	32.66	0.030
89 1 19	0 m	2.2	10.60	95.9	32.50	0.020
	10 m	2.0	10.56	95.1	32.50	0.020
	Btm	2.4	10.06	91.6	32.61	0.020
89 2 2	0 m	1.2	11.23	99.1	32.34	0.020
	10 m	1.2	11.16	98.3	32.23	0.040
	Btm	1.5	11.20	99.5	32.33	0.030
89 3 15	0 m	0.8	11.39	99.3	31.97	0.020
	10 m	0.4	11.40	98.3	32.02	0.020
	Btm	3.3	11.46	106.4	32.06	0.020
89 4 12	0 m	2.9	10.60	96.7	30.99	0.020
	10 m	0.0	11.02	0.0	30.99	0.020
	Btm	0.5	11.35	97.7	31.46	0.020
89 4 25	0 m	0.0	10.62	0.0	31.03	0.020
	10 m	0.0	11.09	0.0	31.12	0.020
	Btm	0.0	11.10	0.0	31.30	0.020
89 5 10	0 m	5.8	8.79	0.0	0.00	0.638
	10 m	5.4	9.85	0.0	0.00	1.050
	Btm	4.9	10.12	0.0	0.00	0.702
89 5 25	0 m	6.2	10.26	0.0	0.00	0.000
	10 m	6.6	10.59	0.0	0.00	0.000
	Btm	6.7	10.36	0.0	0.00	0.000
89 6 7	0 m	8.0	0.00	0.0	30.99	0.000
	10 m	6.7	0.00	0.0	31.35	0.000
	Btm	6.5	0.00	0.0	31.29	0.000

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 3						
89 6 14	0 m	9.5	0.00	0.0	30.72	0.000
	10 m	8.0	0.00	0.0	30.82	0.000
	Btm	6.9	0.00	0.0	31.31	0.000
89 6 21	0 m	10.0	0.00	0.0	31.03	0.000
	10 m	8.0	0.00	0.0	31.14	0.000
	Btm	7.6	0.00	0.0	31.26	0.000
89 6 28	0 m	11.0	0.00	0.0	0.00	0.000
	10 m	10.5	0.00	0.0	0.00	0.000
	Btm	10.5	0.00	0.0	0.00	0.000
89 7 4	0 m	9.5	0.00	0.0	31.55	0.000
	10 m	10.5	0.00	0.0	0.00	0.000
	Btm	9.7	0.00	0.0	0.00	0.000
89 7 12	0 m	11.4	0.00	0.0	0.00	0.000
	Btm	12.5	0.00	0.0	31.29	0.000
89 7 18	0 m	11.5	0.00	0.0	31.70	0.000
	Btm	13.5	0.00	0.0	31.71	0.000
89 7 26	0 m	13.0	0.00	0.0	31.81	0.000
	Btm	15.5	0.00	0.0	31.89	0.000
89 8 2	0 m	12.0	0.00	0.0	31.96	0.000
	Btm	13.0	0.00	0.0	31.96	0.000
89 8 10	0 m	13.2	0.00	0.0	31.84	0.001
	Btm	13.3	0.00	0.0	31.99	0.001
89 8 17	0 m	13.2	8.54	99.3	31.93	1.090
	Btm	14.8	8.68	104.3	31.90	0.831
89 8 23	0 m	14.0	7.68	90.8	31.95	3.140
	Btm	12.9	8.00	92.5	32.02	1.580
89 8 30	0 m	11.9	8.56	97.0	32.21	1.800
	Btm	12.4	8.72	100.0	32.20	0.840
89 9 6	0 m	12.8	8.16	94.2	32.27	0.720
	Btm	12.5	7.77	89.2	32.29	0.660
89 9 13	0 m	13.8	0.00	0.0	32.17	1.060
	Btm	14.3	7.18	85.6	32.09	0.680
89 9 20	0 m	12.8	7.91	91.4	32.00	7.050
	Btm	13.8	7.94	93.6	32.07	6.760
89 9 27	0 m	11.2	7.89	88.2	32.51	1.090
	Btm	11.8	7.84	89.0	32.51	0.740
89 10 5	0 m	10.4	7.73	85.0	32.64	0.620
	Btm	10.6	7.78	86.1	32.64	0.820
89 10 11	0 m	10.2	7.28	79.8	32.64	0.620
	Btm	10.5	7.25	80.0	32.70	0.760
89 10 18	0 m	10.2	7.59	83.1	32.60	0.530
	Btm	8.9	7.70	82.0	32.59	0.670
89 10 25	0 m	10.9	7.79	86.5	32.38	0.300
	Btm	11.2	7.82	87.6	32.75	0.770
89 11 7	0 m	10.6	7.44	82.0	32.09	0.540
	Btm	10.3	7.96	87.3	32.46	0.390
89 11 20	0 m	8.5	8.24	86.7	32.16	0.640
	Btm	8.2	8.35	87.4	32.36	1.000
89 12 12	0 m	4.0	8.69	82.5	32.75	0.360
	Btm	3.6	8.34	86.5	32.47	0.400

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 4						
88 1 20	0 m	1.9	10.92	97.7	31.82	0.416
	10 m	2.5	10.69	97.3	31.99	0.296
88 3 16	0 m	1.8	11.29	100.7	31.78	0.263
88 5 11	0 m	5.9	11.93	0.0	0.00	0.000
	10 m	5.2	11.87	0.0	0.00	0.000
88 5 25	0 m	7.6	10.24	104.5	30.51	3.628
88 6 1	0 m	7.4	11.13	113.2	30.94	5.680
	10 m	7.3	0.00	0.0	30.94	6.460
88 6 7	0 m	8.0	13.14	136.1	31.31	0.710
	10 m	6.9	11.89	119.1	31.33	1.720
88 6 14	0 m	8.2	9.55	99.2	31.50	0.560
	10 m	7.6	12.52	128.4	31.47	0.590
88 6 22	0 m	10.0	11.84	128.3	31.54	0.440
88 6 28	0 m	10.8	10.74	0.0	0.00	0.270
88 7 12	0 m	10.5	9.05	99.1	31.59	0.050
	10 m	10.4	8.94	97.7	31.58	0.060
88 7 19	0 m	11.3	8.81	98.4	31.64	0.070
88 7 28	0 m	11.9	9.04	101.9	31.25	0.050
	10 m	10.9	9.54	105.2	31.29	0.040
88 8 9	0 m	13.0	9.06	104.9	31.75	0.060
	10 m	11.2	9.37	104.5	31.79	0.090
88 8 16	0 m	12.8	8.36	96.3	31.63	0.130
88 8 23	0 m	12.4	8.09	92.7	31.86	0.070
	10 m	11.5	8.41	94.4	31.90	0.060
88 8 30	0 m	12.4	8.72	99.6	31.50	0.070
	10 m	11.8	8.87	100.0	31.76	0.060
88 9 6	0 m	11.8	8.99	101.3	31.42	0.110
	10 m	11.6	8.68	97.7	31.97	0.080
88 9 13	0 m	11.6	6.13	69.1	32.09	0.070
	10 m	11.0	6.75	75.1	32.24	0.060
88 9 21	0 m	11.5	8.37	94.2	32.26	0.200
88 9 27	0 m	11.1	8.33	93.0	32.37	0.120
	10 m	11.0	8.21	91.4	32.34	0.090
88 10 4	0 m	11.0	7.82	87.2	32.44	0.060
88 10 11	0 m	10.3	8.66	95.2	32.47	0.050
	10 m	10.4	8.63	95.0	32.46	0.050
88 10 18	0 m	9.8	8.56	93.0	32.62	0.050
88 10 25	0 m	9.9	9.02	98.1	32.47	0.040
	10 m	10.0	8.95	97.5	32.45	0.040
88 11 8	0 m	9.2	8.79	93.9	32.15	0.050
	10 m	10.0	8.89	96.8	32.35	0.030
88 12 1	0 m	6.9	9.12	92.5	32.09	0.040
	10 m	7.2	0.00	0.0	0.00	0.000
88 12 8	0 m	6.5	8.88	89.5	32.68	0.020
	10 m	6.8	9.00	91.4	32.65	0.020
89 1 19	0 m	2.2	10.57	95.7	32.47	0.020
	10 m	2.2	10.58	95.9	32.55	0.020
89 2 2	0 m	0.9	11.17	97.5	32.23	0.020
	10 m	1.2	11.21	98.7	32.25	0.030
89 3 15	0 m	0.5	11.36	98.1	31.92	0.020
	10 m	0.4	11.43	98.6	32.06	0.020

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 5						
88 1 20	0 m	2.1	11.09	160.2	32.05	0.353
	10 m	2.6	11.06	100.9	32.15	0.281
	Btm	2.6	10.00	96.0	32.12	0.296
88 3 16	0 m	1.8	10.52	91.5	31.75	0.244
	10 m	1.9	10.52	93.9	31.75	0.259
	Btm	2.0	10.63	95.4	31.79	0.249
88 5 25	0 m	0.0	0.00	0.0	30.59	1.753
88 6 1	0 m	6.9	11.81	119.0	31.10	6.120
	10 m	6.8	11.88	119.2	31.05	5.080
	Btm	6.2	11.64	115.3	31.21	4.360
88 6 7	0 m	8.2	10.83	112.4	31.14	0.870
	10 m	7.2	10.80	109.7	31.23	0.710
	Btm	7.4	10.97	111.8	31.25	0.780
88 6 14	0 m	8.4	12.40	129.6	31.50	0.250
	10 m	7.3	12.24	124.6	31.49	0.580
	Btm	7.1	11.28	114.3	31.52	0.530
88 6 22	0 m	11.2	11.28	125.4	31.43	0.300
	10 m	8.4	11.96	124.9	31.52	0.360
	Btm	8.3	11.93	124.4	31.53	0.530
88 6 28	0 m	10.4	10.69	118.3	33.56	0.240
	10 m	9.0	10.38	111.5	33.61	0.430
	Btm	8.9	11.36	121.6	33.62	0.450
88 7 5	0 m	10.8	9.00	99.2	31.37	0.080
	10 m	9.8	9.30	100.3	31.40	0.080
	Btm	9.7	9.41	101.3	31.45	0.110
88 7 12	0 m	10.5	9.31	102.2	31.62	0.070
	10 m	9.5	9.60	103.0	31.63	0.110
	Btm	9.4	9.65	103.1	31.64	0.100
88 7 19	0 m	12.0	8.19	92.7	31.53	0.040
	10 m	10.8	8.72	96.1	31.58	0.020
	Btm	10.6	9.33	102.6	31.59	0.020
88 7 28	0 m	11.2	9.61	106.8	31.32	0.040
	10 m	10.8	9.66	106.4	31.33	0.040
	Btm	11.1	9.64	106.9	31.35	0.050
88 8 2	0 m	11.3	9.11	101.5	31.60	0.040
	10 m	11.0	9.31	103.0	31.59	0.030
	Btm	10.4	9.39	102.6	31.73	0.040
88 8 9	0 m	12.8	8.57	98.9	31.74	0.070
	10 m	10.6	9.33	102.7	31.81	0.080
	Btm	11.0	9.27	102.7	31.82	0.080
88 8 16	0 m	12.3	8.69	99.2	31.73	0.070
	10 m	11.8	8.86	100.0	31.74	0.060
	Btm	11.2	9.16	102.1	31.84	0.050
88 8 23	0 m	12.2	8.07	91.8	31.84	0.050
	10 m	11.6	8.35	93.9	31.89	0.050
	Btm	11.4	8.56	95.9	31.95	0.060
88 8 30	0 m	11.7	9.27	104.5	31.84	0.090
	10 m	11.5	9.13	102.4	31.88	0.070
	Btm	11.1	9.69	107.8	32.00	0.070
88 9 6	0 m	11.5	9.69	108.8	31.91	0.100
	10 m	11.5	9.76	109.5	31.91	0.060
	Btm	11.3	9.72	108.7	32.00	0.040
88 9 13	0 m	11.1	6.98	77.9	32.28	0.130
	10 m	11.1	6.40	71.3	32.26	0.110
	Btm	11.0	6.71	74.7	32.40	0.100
88 9 21	0 m	11.5	8.27	92.9	32.21	0.200
	10 m	11.3	8.35	93.4	32.24	0.090
	Btm	11.4	8.31	93.2	32.28	0.230
88 9 27	0 m	11.1	8.26	92.2	32.35	0.110
	10 m	11.1	8.32	92.8	32.33	0.100
	Btm	10.9	8.24	91.6	32.33	0.090

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 5						
88 10 4	0 m	11.0	8.12	90.6	32.46	0.060
	10 m	10.9	8.27	91.9	32.44	0.060
	Btm	11.2	8.30	92.9	32.46	0.050
88 10 11	0 m	10.2	8.51	93.2	32.44	0.060
	10 m	10.3	8.36	91.7	32.44	0.050
	Btm	10.3	8.42	92.5	32.68	0.050
88 10 18	0 m	9.8	7.86	85.4	32.54	0.030
	10 m	10.0	8.34	91.0	32.60	0.040
	Btm	9.9	8.30	90.2	32.61	0.030
88 10 25	0 m	9.8	9.04	98.1	32.48	0.040
	10 m	10.1	9.10	99.4	32.49	0.040
	Btm	10.1	8.98	98.2	32.48	0.030
88 11 8	0 m	9.1	8.88	94.9	32.36	0.040
	10 m	9.6	8.92	96.3	32.31	0.040
	Btm	10.0	8.90	97.0	32.38	0.040
88 12 1	0 m	6.5	8.79	88.0	31.72	0.030
	10 m	7.8	9.37	97.0	32.37	0.030
	Btm	7.5	9.05	93.2	32.40	0.020
88 12 8	0 m	6.8	9.41	95.4	32.65	0.010
	10 m	6.5	8.93	90.0	32.59	0.030
	Btm	6.8	9.04	91.8	32.60	0.030
89 1 19	0 m	2.2	10.42	94.4	32.38	0.040
	10 m	1.6	10.50	93.7	32.48	0.020
	Btm	2.1	10.49	94.4	32.48	0.020
89 2 2	0 m	1.1	11.21	98.8	32.28	0.020
	10 m	1.1	11.08	97.4	32.24	0.020
	Btm	1.4	11.16	98.8	32.27	0.020
89 3 15	0 m	0.5	11.46	99.0	31.99	0.020
	10 m	0.7	11.39	99.1	32.04	0.010
	Btm	0.4	11.48	99.0	32.06	0.020
89 8 10	0 m	13.0	0.00	0.0	31.84	0.000
	Btm	12.8	0.00	0.0	31.98	0.000
89 8 17	0 m	13.8	0.00	0.0	31.93	0.000
	Btm	13.0	0.00	0.0	31.92	0.000
89 8 23	0 m	12.8	0.00	0.0	32.07	0.000
	Btm	14.2	0.00	0.0	32.11	0.000
89 8 30	0 m	11.9	0.00	0.0	32.21	0.000
	Btm	12.5	0.00	0.0	32.20	0.000
89 9 6	0 m	12.3	0.00	0.0	32.30	0.000
	Btm	12.8	0.00	0.0	32.31	0.000
89 9 13	0 m	13.9	0.00	0.0	32.12	0.000
	Btm	14.8	0.00	0.0	32.16	0.000
89 9 20	0 m	13.1	0.00	0.0	32.15	0.000
	Btm	13.5	0.00	0.0	32.16	0.000
89 9 27	0 m	11.5	0.00	0.0	32.53	0.000
	Btm	11.1	0.00	0.0	32.51	0.000
89 10 5	0 m	10.5	0.00	0.0	32.63	0.000
	Btm	10.6	0.00	0.0	32.62	0.000
89 10 11	0 m	10.1	0.00	0.0	32.56	0.000
	Btm	10.6	0.00	0.0	32.66	0.000
89 10 18	0 m	9.8	0.00	0.0	32.51	0.000
	Btm	9.8	0.00	0.0	32.51	0.000
89 10 25	0 m	10.3	0.00	0.0	32.40	0.000
	Btm	11.7	0.00	0.0	32.52	0.000
89 11 7	0 m	9.6	0.00	0.0	32.22	0.000
	Btm	10.5	0.00	0.0	32.46	0.000
89 11 20	0 m	8.9	0.00	0.0	32.24	0.000
	Btm	6.9	0.00	0.0	32.44	0.000
89 12 12	0 m	3.6	0.00	0.0	32.74	0.000
	Btm	3.5	0.00	0.0	32.73	0.000

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 6						
88 1 20	0 m	2.2	7.05	63.7	32.06	0.367
	10 m	2.5	11.01	100.2	32.06	0.294
	Btm	2.5	11.06	100.6	32.08	0.263
88 3 16	0 m	1.8	10.63	94.9	31.82	0.262
	10 m	2.1	10.83	97.4	31.85	0.263
88 5 11	0 m	6.0	12.50	0.0	0.00	0.000
	10 m	4.9	11.75	0.0	0.00	0.000
88 5 25	0 m	7.3	9.58	97.0	30.71	2.720
	10 m	6.5	11.05	110.1	31.06	0.803
	Btm	7.6	10.74	109.9	31.00	0.872
88 6 1	0 m	7.5	11.23	114.7	30.96	3.590
	10 m	7.2	11.17	113.0	30.94	4.000
	Btm	7.1	11.36	114.9	31.05	5.180
88 6 7	0 m	7.5	10.09	103.0	31.26	0.810
	10 m	7.4	11.65	118.9	31.27	0.840
88 6 14	0 m	9.0	11.72	124.2	31.43	0.330
	10 m	7.7	12.00	123.4	31.45	0.340
	Btm	7.5	12.15	124.4	31.47	0.460
88 6 22	0 m	10.7	11.17	122.8	31.46	0.350
	10 m	9.4	11.27	120.5	31.47	0.450
88 6 28	0 m	9.9	11.36	124.4	33.62	0.460
	10 m	8.8	10.58	113.0	33.63	0.490
88 7 5	0 m	10.7	9.25	101.7	31.43	0.110
	10 m	9.6	9.42	101.1	31.47	0.120
88 7 12	0 m	10.2	9.09	98.9	31.63	0.060
	10 m	9.9	9.24	99.8	31.61	0.080
	Btm	9.6	9.37	100.8	31.63	0.090
88 7 19	0 m	12.2	8.58	97.5	31.53	0.030
	10 m	11.1	8.58	95.2	31.55	0.020
88 7 28	0 m	11.8	8.80	99.0	31.21	0.040
	10 m	11.0	9.27	102.4	31.28	0.040
	Btm	10.9	9.39	103.5	31.29	0.040
88 8 2	0 m	12.1	8.82	100.0	31.50	0.030
	10 m	11.1	8.92	99.0	31.53	0.020
	Btm	10.7	9.05	99.8	31.63	0.030
88 8 9	0 m	12.7	8.74	100.5	31.73	0.070
	10 m	11.0	9.05	100.5	31.81	0.040
	Btm	10.8	9.39	103.6	31.85	0.060
88 8 16	0 m	13.0	8.28	95.8	31.60	0.080
	10 m	12.0	8.54	96.8	31.74	0.040
88 8 23	0 m	12.3	8.31	94.9	31.84	0.070
	10 m	11.6	8.27	93.3	31.86	0.040
	Btm	11.3	8.51	95.1	31.92	0.050
88 8 30	0 m	12.2	8.98	102.0	31.47	0.090
	10 m	11.9	8.72	98.6	31.68	0.050
	Btm	11.7	8.90	100.2	31.80	0.050
88 9 6	0 m	11.9	8.53	96.5	31.86	0.080
	10 m	11.8	9.13	103.1	31.93	0.040
	Btm	11.5	8.69	97.6	31.95	0.050
88 9 13	0 m	11.5	6.54	73.6	32.14	0.080
	10 m	11.1	6.44	71.8	32.24	0.080
	Btm	11.0	6.65	74.0	32.34	0.090
88 9 21	0 m	11.3	8.87	99.3	32.24	0.170
	10 m	12.0	7.89	89.7	32.30	0.140
88 9 27	0 m	11.2	8.12	90.7	32.29	0.080

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 6						
	10 m	11.2	8.20	91.5	32.30	0.080
	Btm	11.1	8.18	91.3	32.31	0.090
88 10 4	0 m	11.0	8.16	91.0	32.45	0.060
	10 m	10.9	7.96	88.5	32.48	0.050
88 10 11	0 m	10.2	8.59	94.2	32.58	0.040
	10 m	10.2	8.43	92.4	32.41	0.050
	Btm	10.2	8.66	94.9	32.42	0.050
88 10 18	0 m	9.8	8.42	91.5	32.63	0.040
	10 m	10.0	8.31	90.6	32.60	0.040
88 10 25	0 m	10.0	8.94	97.4	32.33	0.050
	10 m	9.9	8.95	97.2	32.40	0.040
	Btm	10.0	8.86	96.6	32.44	0.030
88 11 8	0 m	9.1	8.59	91.7	32.22	0.030
	10 m	10.0	8.88	96.7	32.26	0.030
	Btm	9.5	8.92	96.1	32.33	0.030
88 12 1	0 m	6.7	9.07	91.5	32.08	0.050
	10 m	8.3	8.96	94.0	32.38	0.030
88 12 8	0 m	6.0	9.07	90.2	32.51	0.020
	10 m	5.8	9.00	89.2	32.50	0.020
	Btm	6.3	8.97	89.9	32.50	0.030
89 1 19	0 m	2.0	10.32	93.1	32.45	0.020
	10 m	2.2	10.25	92.9	32.46	0.020
	Btm	2.3	10.22	92.7	32.48	0.020
89 2 2	0 m	0.8	11.08	96.6	32.25	0.020
	10 m	1.2	11.13	98.0	32.24	0.020
	Btm	1.0	11.05	96.8	32.24	0.020
89 3 15	0 m	0.5	11.32	97.8	31.89	0.030
	10 m	0.0	11.35	0.0	31.97	1.320
	Btm	0.4	11.27	97.1	32.01	0.020

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 7						
88 1 20	0 m	2.4	10.79	97.9	32.03	0.220
	Btm	2.7	10.84	99.2	32.03	0.328
88 3 16	0 m	1.8	11.31	101.0	31.78	0.337
	Btm	2.0	11.22	100.7	31.77	0.257
88 5 11	0 m	5.2	11.47	111.0	31.11	0.000
	Btm	4.3	11.71	110.9	31.25	0.000
88 6 1	0 m	7.5	0.00	0.0	31.01	9.520
	Btm	6.3	0.00	0.0	31.27	5.760
88 6 7	0 m	7.5	11.14	114.1	31.39	0.760
	Btm	6.8	11.23	113.1	31.41	0.530
88 6 14	0 m	8.5	10.97	114.9	31.53	0.470
	Btm	7.1	11.98	121.6	31.54	0.480
88 6 22	0 m	10.0	11.92	129.1	31.59	0.250
	Btm	7.8	11.27	116.3	31.62	0.510
88 6 28	0 m	9.5	11.54	125.4	33.78	0.330
	Btm	8.1	11.03	116.2	33.76	0.360
88 7 5	0 m	9.4	9.97	106.7	31.62	0.050
	Btm	8.4	9.76	102.0	31.71	0.070
88 7 12	0 m	10.5	9.53	104.5	31.73	0.040
	Btm	9.4	9.73	104.2	31.70	0.060
88 7 19	0 m	11.3	9.79	109.2	31.61	0.090
	Btm	9.7	9.43	101.7	31.74	0.050
88 7 28	0 m	11.4	9.53	106.4	31.29	0.090
	Btm	10.8	9.75	107.3	31.47	0.050
88 8 2	0 m	11.3	9.94	110.9	31.71	0.070
	Btm	10.5	8.60	94.4	31.75	0.050
88 8 9	0 m	11.8	9.46	106.8	31.92	0.100
	Btm	10.5	9.54	104.8	31.92	0.080
88 8 16	0 m	12.7	8.98	103.1	31.46	0.090
	Btm	11.3	9.17	101.0	31.86	0.090
88 8 23	0 m	11.3	8.71	97.5	32.03	0.120
	Btm	11.2	8.84	98.6	32.02	0.080
	Btm	11.1	8.88	98.8	32.01	0.070
88 8 30	0 m	11.8	9.13	102.8	31.54	0.130
	Btm	11.1	9.29	103.4	32.04	0.080
88 9 6	0 m	0.0	8.56	0.0	31.64	0.230
	10 m	0.0	9.83	0.0	31.96	0.120
	Btm	0.0	9.50	0.0	32.03	0.080
88 9 13	0 m	11.3	7.04	78.9	32.27	0.250
	Btm	11.1	7.72	86.0	32.21	0.240
88 9 21	0 m	11.3	9.34	104.4	32.28	0.450
	Btm	11.3	9.15	102.5	32.32	0.270
88 9 27	0 m	11.1	8.77	97.9	32.35	0.160
	Btm	11.7	8.64	97.7	32.34	0.160
88 10 4	0 m	10.9	8.54	95.1	32.50	0.100
	Btm	10.9	8.34	92.8	32.50	0.050
88 10 11	0 m	10.3	8.74	96.0	32.39	0.060
	Btm	10.9	8.60	95.6	32.48	0.060
88 10 18	0 m	9.8	8.88	96.3	32.58	0.070
	Btm	9.9	8.97	97.8	32.57	0.080
88 10 25	0 m	9.7	9.00	97.2	31.99	0.070
	Btm	9.9	9.02	98.0	32.35	0.040
88 11 8	0 m	9.0	9.13	97.2	32.23	0.040
	10 m	9.4	8.96	96.3	32.23	0.040
	Btm	10.0	9.12	99.2	32.23	0.040

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 7						
88 12 1	0 m	6.3	9.49	94.3	31.48	0.040
	Btm	7.5	9.34	96.1	32.22	0.040
88 12 8	0 m	6.0	9.30	92.6	32.43	0.020
	Btm	5.3	9.04	88.5	32.50	0.010
89 1 19	0 m	2.0	10.74	96.8	32.42	0.020
	10 m	1.6	10.56	94.1	32.44	0.020
	Btm	1.7	10.50	93.9	32.45	0.020
89 2 2	0 m	1.0	11.34	99.5	32.21	0.020
	Btm	0.4	11.26	97.3	32.25	0.020
89 3 15	0 m	0.6	11.44	99.1	31.94	0.030
	10 m	1.0	11.51	100.7	31.99	0.020
	Btm	0.0	11.51	0.0	32.04	0.020
89 8 10	0 m	13.1	0.00	0.0	31.97	0.000
	Btm	12.5	0.00	0.0	32.07	0.000
89 8 17	0 m	14.5	0.00	0.0	31.68	0.000
	Btm	0.0	0.00	0.0	31.93	0.000
89 8 23	0 m	13.0	0.00	0.0	32.03	0.000
	Btm	14.0	0.00	0.0	32.08	0.000
89 8 30	0 m	12.0	0.00	0.0	32.23	0.000
	Btm	12.7	0.00	0.0	32.22	0.000
89 9 6	0 m	12.5	0.00	0.0	32.30	0.000
	Btm	0.0	0.00	0.0	32.31	0.000
89 9 13	0 m	13.4	0.00	0.0	32.14	0.000
	Btm	15.5	0.00	0.0	32.26	0.000
89 9 20	0 m	12.5	0.00	0.0	32.22	0.000
	Btm	0.0	0.00	0.0	32.29	0.000
89 9 27	0 m	11.4	0.00	0.0	32.41	0.000
	Btm	10.9	0.00	0.0	32.48	0.000
89 10 5	0 m	0.0	0.00	0.0	32.51	0.000
	Btm	10.7	0.00	0.0	32.53	0.000
89 10 11	0 m	10.3	0.00	0.0	32.59	0.000
	Btm	10.4	0.00	0.0	32.59	0.000
89 10 18	0 m	10.2	0.00	0.0	32.51	0.000
	Btm	8.5	0.00	0.0	32.56	0.000
89 10 25	0 m	10.5	0.00	0.0	32.19	0.000
	Btm	15.2	0.00	0.0	32.43	0.000
89 11 7	0 m	9.5	0.00	0.0	32.23	0.000
	Btm	0.0	0.00	0.0	32.52	0.000
89 11 20	0 m	8.1	0.00	0.0	32.16	0.000
	Btm	6.3	0.00	0.0	32.24	0.000
89 12 12	0 m	2.4	0.00	0.0	32.83	0.000
	Btm	2.6	0.00	0.0	32.56	0.000

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 8						
88 1 20	0 m	2.5	10.99	99.9	32.09	0.325
	10 m	2.8	10.75	98.6	32.11	0.261
	Btm	2.8	11.16	102.4	32.07	0.257
88 3 16	0 m	1.8	10.88	97.1	31.76	0.237
	10 m	2.2	11.06	99.6	31.76	0.263
88 5 11	0 m	5.4	11.96	0.0	0.00	0.000
	10 m	4.8	11.80	0.0	0.00	0.000
	Btm	5.4	12.03	0.0	0.00	0.000
88 5 25	0 m	6.8	0.00	0.0	30.90	1.996
	10 m	5.7	0.00	0.0	31.28	1.393
	Btm	0.0	0.00	0.0	30.99	0.000
88 6 1	0 m	7.1	11.56	116.9	31.13	7.530
	10 m	6.3	11.55	114.8	31.18	5.380
88 6 7	0 m	7.0	10.85	109.7	31.35	0.800
	10 m	6.9	10.99	111.0	31.37	0.740
88 6 14	0 m	8.4	11.62	121.4	31.50	0.650
	10 m	7.3	11.88	121.1	31.51	0.470
88 6 22	0 m	9.3	12.52	133.6	31.56	0.520
	10 m	7.9	12.01	124.3	31.56	0.590
88 6 28	0 m	9.4	10.76	116.6	33.67	0.400
	10 m	8.6	10.99	116.9	33.66	0.420
88 7 5	0 m	9.9	9.75	105.5	31.57	0.180
	10 m	9.0	9.92	105.1	31.57	0.180
88 7 12	0 m	10.0	9.81	106.3	31.63	0.070
	10 m	9.7	9.78	105.4	31.64	0.120
	Btm	9.1	9.84	104.6	31.67	0.100
88 7 19	0 m	12.0	7.42	84.0	31.50	0.070
	10 m	9.7	9.57	103.0	31.63	0.050
88 7 28	0 m	11.3	9.19	102.2	31.28	0.080
	10 m	10.6	9.69	106.3	31.33	0.040
	Btm	11.1	9.65	107.1	31.44	0.030
88 8 2	0 m	10.7	8.50	93.7	31.77	0.060
	10 m	10.4	10.20	111.6	31.78	0.040
88 8 9	0 m	11.9	9.42	106.6	31.82	0.120
	10 m	10.8	9.32	103.0	31.84	0.070
88 8 16	0 m	12.8	8.80	101.4	31.75	0.140
	10 m	11.8	9.09	102.8	31.90	0.060
88 8 23	0 m	11.8	8.32	94.2	31.95	0.050
	10 m	11.3	8.55	95.7	31.94	0.040
	Btm	11.0	8.52	94.7	31.98	0.040
88 8 30	0 m	12.1	8.48	96.3	31.69	0.090
	10 m	11.4	9.12	105.1	31.90	0.070
88 9 6	0 m	11.4	10.46	117.2	31.98	0.130
	10 m	11.4	8.61	96.6	31.98	0.060
88 9 13	0 m	11.1	6.66	74.3	32.26	0.160
	10 m	11.1	6.61	73.6	32.25	0.120
88 9 21	0 m	11.2	6.58	73.6	32.29	0.330
	10 m	0.0	7.97	0.0	32.23	0.220
88 9 27	0 m	11.0	8.32	92.6	32.34	0.130
	10 m	10.9	8.96	93.9	32.38	0.120
88 10 4	0 m	10.9	8.08	88.9	32.48	0.070
	10 m	11.0	8.33	92.7	32.49	0.070
88 10 11	0 m	10.3	8.60	93.0	32.40	0.060
	10 m	10.3	8.57	93.9	32.45	0.050
	Btm	10.3	8.62	93.5	32.48	0.040

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 8						
88 10 18	0 m	10.0	9.11	99.3	32.62	0.050
	10 m	10.0	8.33	90.9	32.65	0.030
88 10 25	0 m	10.0	9.00	98.1	32.38	0.040
	10 m	9.9	9.08	98.8	32.47	0.040
	Btm	10.3	9.00	98.8	32.48	0.040
88 11 8	0 m	9.2	8.94	95.7	32.39	0.050
	10 m	10.0	9.00	98.0	32.30	0.040
	Btm	9.5	9.19	99.0	32.35	0.040
88 12 1	0 m	7.1	9.21	93.9	32.33	0.030
	10 m	7.5	9.31	96.0	32.36	0.030
88 12 8	0 m	6.8	9.00	91.4	32.58	0.020
	10 m	7.1	9.17	93.5	32.54	0.020
	Btm	6.3	9.13	91.4	32.56	0.020
89 1 19	0 m	2.2	10.76	97.6	32.43	0.020
	10 m	1.8	10.63	95.2	32.45	0.020
	Btm	2.0	10.62	95.7	32.46	0.020
89 2 2	0 m	1.1	11.26	99.1	32.20	0.020
	10 m	1.3	11.21	98.9	32.20	0.020
	Btm	1.3	11.20	98.9	32.23	0.020
89 3 15	0 m	0.2	11.46	98.2	31.95	0.020
	10 m	0.5	11.41	98.6	32.05	0.020
	Btm	0.6	11.49	99.4	31.99	0.020
89 8 10	0 m	12.8	0.00	0.0	32.02	0.000
	Btm	13.0	0.00	0.0	32.05	0.000
89 8 17	0 m	13.9	0.00	0.0	31.01	0.000
	Btm	14.8	0.00	0.0	31.93	0.000
89 8 23	0 m	13.0	0.00	0.0	32.07	0.000
	Btm	13.8	0.00	0.0	32.05	0.000
89 8 30	0 m	12.6	0.00	0.0	32.19	0.000
	Btm	12.9	0.00	0.0	32.22	0.000
89 9 6	0 m	12.9	0.00	0.0	32.31	0.000
	Btm	13.4	0.00	0.0	32.31	0.000
89 9 13	0 m	14.0	0.00	0.0	32.09	0.000
	Btm	15.6	0.00	0.0	32.09	0.000
89 9 20	0 m	12.8	0.00	0.0	32.08	0.000
	Btm	13.5	0.00	0.0	32.22	0.000
89 9 27	0 m	11.8	0.00	0.0	32.47	0.000
	Btm	11.0	0.00	0.0	32.54	0.000
89 10 5	0 m	10.5	0.00	0.0	32.65	0.000
	Btm	0.0	0.00	0.0	32.61	0.000
89 10 11	0 m	10.2	0.00	0.0	32.61	0.000
	Btm	10.5	0.00	0.0	32.65	0.000
89 10 18	0 m	10.2	0.00	0.0	32.56	0.000
	Btm	8.6	0.00	0.0	32.49	0.000
89 10 25	0 m	10.9	0.00	0.0	32.53	0.000
	Btm	11.9	0.00	0.0	32.49	0.000
89 11 7	0 m	10.0	0.00	0.0	32.50	0.000
	Btm	11.0	0.00	0.0	32.47	0.000
89 11 20	0 m	8.8	0.00	0.0	32.44	0.000
	Btm	6.5	0.00	0.0	32.44	0.000
89 12 12	0 m	3.8	0.00	0.0	32.82	0.000
	Btm	0.0	0.00	0.0	32.68	0.000

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 9						
88 1 20	0 m	2.5	10.93	99.6	32.08	0.357
	10 m	2.7	10.92	99.7	32.07	0.291
	Btm	2.7	11.07	101.3	32.08	0.270
88 3 16	0 m	1.9	11.22	100.4	31.76	0.281
	10 m	2.0	11.41	102.3	31.72	0.270
88 5 25	0 m	6.5	0.00	0.0	30.93	2.941
	10 m	6.7	0.00	0.0	31.01	2.437
	Btm	6.9	0.00	0.0	31.34	1.540
88 6 1	0 m	7.0	11.97	120.8	31.02	10.600
	10 m	7.0	12.07	121.8	31.00	16.700
88 6 7	0 m	7.3	11.43	116.3	31.37	0.006
	10 m	6.5	10.97	109.6	31.41	0.005
88 6 14	0 m	7.9	11.86	122.5	31.56	0.340
	10 m	7.0	11.91	120.7	31.51	0.420
88 6 22	0 m	10.5	12.50	137.0	31.57	0.480
	10 m	7.9	11.83	122.3	31.57	0.400
88 6 28	0 m	9.9	0.00	0.0	33.73	0.160
	10 m	8.3	11.72	124.0	33.70	0.340
88 7 5	0 m	10.0	10.23	111.0	31.65	0.170
	10 m	8.8	10.16	107.2	31.62	0.190
88 7 12	0 m	10.2	10.13	110.3	31.65	0.080
	10 m	9.5	9.84	105.6	31.65	0.110
	Btm	9.5	9.99	107.2	31.64	0.130
88 7 19	0 m	11.2	9.51	148.4	31.62	0.070
	10 m	10.2	9.38	102.1	31.62	0.060
88 7 28	0 m	11.4	9.53	106.4	31.30	0.060
	10 m	10.7	9.79	107.5	31.35	0.040
	Btm	10.9	9.75	107.6	31.51	0.030
88 8 2	0 m	11.8	8.98	101.3	31.69	0.070
	10 m	10.3	9.05	99.0	31.76	0.060
88 8 9	0 m	12.9	9.43	108.8	31.81	0.110
	10 m	11.4	9.53	106.7	31.84	0.080
	Btm	11.3	9.28	103.6	31.85	0.080
88 8 16	0 m	12.3	9.02	102.8	31.72	0.130
	10 m	11.7	9.07	102.0	31.79	0.060
88 8 23	0 m	12.2	8.43	96.0	31.90	0.050
	10 m	11.2	8.66	96.6	32.00	0.050
	Btm	11.1	8.68	96.6	31.95	0.150
88 8 30	0 m	11.8	8.82	99.6	31.82	0.140
	10 m	11.6	9.74	109.5	31.85	0.120
88 9 6	0 m	0.0	11.64	0.0	31.97	0.170
	10 m	0.0	9.11	0.0	31.94	0.100
	Btm	0.0	9.28	0.0	32.02	0.050
88 9 13	0 m	11.0	6.65	74.1	32.25	0.170
	10 m	11.1	6.77	75.6	32.27	0.140
88 9 21	0 m	11.3	7.72	86.4	32.28	0.340
	10 m	11.3	8.93	100.1	32.23	0.140
88 9 27	0 m	10.9	8.56	95.1	32.33	0.150
	10 m	10.9	8.45	93.9	32.35	0.130
88 10 4	0 m	10.9	8.47	94.2	32.50	0.090
	10 m	10.9	8.27	92.1	32.48	0.060
88 10 11	0 m	10.3	0.00	0.0	32.27	0.060
	10 m	10.3	8.57	93.9	32.46	0.070
	Btm	10.9	8.61	95.6	32.46	0.060
88 10 18	0 m	10.0	8.71	95.0	32.61	0.060

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 9						
	10 m	10.0	8.60	93.8	32.63	0.060
88 10 25	0 m	9.8	8.96	97.2	32.38	0.050
	10 m	9.9	8.86	96.4	32.44	0.040
	Btm	9.8	8.83	95.8	32.47	0.040
88 11 8	0 m	9.2	9.15	97.9	32.28	0.060
	10 m	10.0	9.04	98.4	32.27	0.040
	Btm	9.5	8.96	96.5	32.30	0.020
88 12 1	0 m	7.0	9.17	93.3	32.28	0.030
	10 m	7.7	9.25	95.6	32.27	0.030
88 12 8	0 m	6.4	9.08	91.3	32.63	0.010
	10 m	4.7	9.31	89.7	32.44	0.020
	Btm	6.0	9.15	91.2	32.54	0.020
89 1 19	0 m	2.2	10.52	95.2	32.43	0.020
	10 m	2.0	10.58	95.4	32.44	0.020
	Btm	1.9	10.69	96.2	32.45	0.020
89 2 2	0 m	1.1	11.23	98.7	32.21	0.010
	10 m	0.7	11.20	97.4	32.21	0.020
	Btm	0.9	11.28	98.5	32.20	0.020
89 3 15	0 m	0.2	11.49	98.3	31.85	0.020
	10 m	0.0	11.56	0.0	32.00	0.020
	Btm	0.9	11.54	100.7	32.02	0.020
89 8 10	0 m	13.5	0.00	0.0	32.05	0.000
	10 m	13.0	0.00	0.0	32.01	0.000
89 8 17	0 m	14.5	0.00	0.0	31.94	0.000
	10 m	13.2	0.00	0.0	31.80	0.000
89 8 23	0 m	13.4	0.00	0.0	32.04	0.000
	10 m	13.8	0.00	0.0	32.09	0.000
89 8 30	0 m	12.0	0.00	0.0	32.21	0.000
	10 m	13.1	0.00	0.0	32.22	0.000
89 9 6	0 m	12.9	0.00	0.0	32.31	0.000
	10 m	13.0	0.00	0.0	32.32	0.000
89 9 13	0 m	14.3	0.00	0.0	32.08	0.000
	10 m	15.3	0.00	0.0	32.20	0.000
89 9 20	0 m	12.9	0.00	0.0	32.14	0.000
	10 m	13.6	0.00	0.0	32.21	0.000
89 9 27	0 m	11.3	0.00	0.0	32.46	0.000
	10 m	11.5	0.00	0.0	32.45	0.000
89 10 5	0 m	0.0	0.00	0.0	32.58	0.000
	10 m	0.0	0.00	0.0	32.59	0.000
89 10 11	0 m	10.3	0.00	0.0	32.60	0.000
	10 m	10.6	0.00	0.0	32.62	0.000
89 10 18	0 m	10.2	0.00	0.0	32.55	0.000
	10 m	8.5	0.00	0.0	32.54	0.000
89 10 25	0 m	10.8	0.00	0.0	32.54	0.000
	10 m	11.6	0.00	0.0	32.51	0.000
89 11 7	0 m	10.3	0.00	0.0	32.50	0.000
	10 m	0.0	0.00	0.0	32.54	0.000
89 11 20	0 m	8.9	0.00	0.0	32.47	0.000
	10 m	6.8	0.00	0.0	32.48	0.000
89 12 12	0 m	4.0	0.00	0.0	0.00	0.000
	10 m	3.6	0.00	0.0	0.00	0.000

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 10						
88 1 20	0 m	2.5	11.28	102.7	32.08	0.395
	10 m	2.7	10.90	99.7	32.08	0.260
	Btm	2.7	11.20	102.5	32.08	0.255
88 3 16	0 m	1.9	10.92	97.7	31.78	0.236
	10 m	2.0	11.23	100.8	31.75	0.236
	Btm	2.0	10.91	97.8	31.77	0.184
88 5 11	0 m	5.0	12.03	0.0	0.00	0.000
	10 m	4.8	0.00	0.0	0.00	0.000
	Btm	4.7	11.84	0.0	0.00	0.000
88 5 25	0 m	6.5	0.00	0.0	30.99	1.818
	10 m	5.7	0.00	0.0	31.24	1.642
	Btm	6.5	0.00	0.0	31.54	0.936
88 6 1	0 m	6.8	11.76	118.1	31.12	7.090
	10 m	6.6	11.94	119.5	31.10	9.010
	Btm	6.3	11.65	115.6	31.27	3.350
88 6 7	0 m	7.0	12.20	123.3	31.35	0.005
	10 m	6.5	10.82	108.0	31.39	0.005
	Btm	6.3	10.85	107.9	31.45	0.004
88 6 14	0 m	7.9	11.60	119.9	31.53	0.650
	10 m	7.0	11.72	118.7	31.53	0.620
	Btm	7.3	11.64	118.8	31.52	0.500
88 6 22	0 m	10.5	12.33	135.0	31.55	0.180
	10 m	7.8	11.96	123.2	31.56	0.490
	Btm	7.3	11.54	117.7	31.60	0.650
88 6 28	0 m	9.4	11.43	123.8	33.66	0.300
	10 m	8.3	11.12	117.7	33.68	0.330
	Btm	8.1	10.94	115.2	33.71	0.420
88 7 5	0 m	10.0	10.19	110.5	31.58	0.090
	10 m	8.8	10.07	102.0	31.61	0.120
	Btm	8.5	10.42	109.2	31.63	0.130
88 7 12	0 m	10.0	9.86	107.0	31.67	0.090
	10 m	9.6	9.83	105.6	31.65	0.130
	Btm	9.2	9.82	104.7	31.66	0.110
88 7 19	0 m	10.8	9.54	105.1	31.63	0.070
	10 m	9.5	9.69	104.0	31.66	0.050
	Btm	9.9	9.71	105.1	31.65	0.050
88 7 28	0 m	11.8	9.64	108.5	31.32	0.050
	10 m	10.8	9.70	106.8	31.35	0.040
	Btm	11.0	9.68	107.2	31.54	0.060
88 8 2	0 m	10.9	9.01	99.8	31.77	0.070
	10 m	10.1	9.36	101.8	31.76	0.060
	Btm	10.8	9.97	110.2	31.80	0.050
88 8 9	0 m	12.0	9.64	109.3	31.90	0.200
	10 m	10.9	9.60	106.3	31.82	0.080
	Btm	11.3	9.42	105.2	31.84	0.070
88 8 16	0 m	12.4	9.36	106.9	31.71	0.120
	10 m	11.7	9.26	104.3	31.78	0.070
	Btm	11.0	9.21	102.4	31.93	0.070
88 8 23	0 m	12.0	8.50	96.3	31.93	0.100
	10 m	11.4	8.47	94.9	31.95	0.060
	Btm	10.9	8.71	96.6	32.03	0.050
88 8 30	0 m	11.7	9.89	111.4	31.86	0.150
	10 m	11.3	8.99	100.5	31.92	0.100
	Btm	11.3	9.16	102.4	31.94	0.090
88 9 6	0 m	11.3	11.41	127.6	31.97	0.140

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 10						
	10 m	11.5	10.43	117.1	31.97	0.110
	Btm	11.3	9.64	107.8	32.03	0.080
88 9 13	0 m	10.1	5.90	64.4	32.28	0.160
	10 m	11.0	6.73	74.1	32.26	0.150
	Btm	10.9	6.81	75.6	32.27	0.140
88 9 21	0 m	11.2	8.99	100.4	32.27	0.330
	10 m	11.4	9.02	103.4	32.30	0.200
	Btm	11.3	7.94	89.0	32.32	0.150
88 9 27	0 m	10.9	8.34	92.6	32.36	0.150
	10 m	10.9	8.21	93.0	32.33	0.140
	Btm	10.9	8.36	92.8	32.34	0.140
88 10 4	0 m	10.8	8.25	91.5	32.50	0.070
	10 m	11.0	8.35	93.2	32.49	0.070
	Btm	10.9	8.18	90.8	32.50	0.060
88 10 11	0 m	10.3	8.51	93.4	32.40	0.050
	10 m	10.9	8.66	96.4	32.46	0.050
	Btm	10.4	8.37	92.5	32.56	0.370
88 10 18	0 m	10.0	8.64	94.2	32.59	0.060
	10 m	10.0	8.73	95.3	32.60	0.060
	Btm	10.0	8.59	93.8	32.67	0.040
88 10 25	0 m	9.9	9.00	97.9	32.46	0.040
	10 m	9.8	9.14	99.3	32.45	0.030
	Btm	9.9	8.92	97.1	32.47	0.040
88 11 8	0 m	9.2	9.06	96.9	32.31	0.040
	10 m	9.5	8.96	96.5	32.30	0.040
	Btm	10.0	8.98	97.8	32.33	0.030
88 12 1	0 m	7.0	9.24	94.0	32.27	0.040
	10 m	7.6	9.17	94.6	32.32	0.030
	Btm	7.7	9.18	94.9	32.45	0.040
88 12 8	0 m	6.6	9.21	92.9	32.64	0.020
	10 m	6.1	9.18	91.6	32.57	0.020
	Btm	6.7	8.97	90.8	32.59	0.020
89 1 19	0 m	2.0	10.83	97.4	32.43	0.020
	10 m	2.2	10.60	95.9	32.44	0.030
	Btm	1.9	10.80	97.0	32.46	0.010
89 2 2	0 m	1.0	11.32	99.2	32.26	0.020
	10 m	0.8	11.19	97.6	32.25	0.030
	Btm	1.1	11.28	99.1	32.29	0.020
89 3 15	0 m	0.2	11.53	98.7	31.91	0.020
	10 m	0.0	11.58	0.0	32.01	0.020
	Btm	0.7	11.52	100.2	32.03	0.100

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 11						
88 1 20	0 m	2.3	11.09	100.4	32.03	0.369
	10 m	2.7	11.25	102.8	32.03	0.269
	Btm	2.2	10.63	96.0	32.03	0.310
88 3 16	0 m	2.0	10.97	98.3	31.61	0.246
	10 m	1.8	11.26	100.4	31.61	0.183
	Btm	2.0	11.19	100.3	31.75	0.233
88 5 11	0 m	5.3	11.15	108.3	31.23	0.000
	10 m	4.9	11.56	110.8	31.43	0.000
	Btm	4.5	11.20	106.8	31.61	0.000
88 5 25	0 m	7.1	11.29	114.2	31.25	3.984
	10 m	6.4	11.22	111.8	31.33	3.775
	Btm	6.7	10.76	108.2	31.64	2.991
88 6 1	0 m	7.8	11.49	118.2	31.32	1.220
	10 m	6.6	11.55	115.7	31.33	2.420
	Btm	7.2	11.50	116.9	31.53	3.030
88 6 7	0 m	8.0	11.13	115.0	31.30	0.003
	10 m	7.3	10.69	108.8	31.31	0.003
	Btm	7.2	10.59	107.5	31.48	0.003
88 6 14	0 m	8.9	11.55	122.0	31.54	0.290
	10 m	8.1	11.74	121.8	31.56	0.340
	Btm	7.9	12.48	129.0	31.53	0.200
88 6 22	0 m	9.8	12.11	130.8	31.68	0.220
	10 m	8.8	12.33	130.0	31.65	0.220
88 6 28	0 m	9.7	10.58	115.6	33.76	0.150
	10 m	9.1	10.75	115.8	33.67	0.170
	Btm	7.9	9.98	104.6	33.86	0.000
88 7 5	0 m	10.3	9.88	107.9	31.70	0.100
	10 m	8.9	9.68	102.4	31.65	0.090
	Btm	8.8	9.81	103.5	31.64	0.100
88 7 12	0 m	10.5	9.52	104.6	31.79	0.030
	10 m	10.0	9.42	102.2	31.75	0.030
	Btm	9.5	9.33	100.3	31.78	0.030
88 7 19	0 m	11.2	9.67	107.6	31.83	0.000
	10 m	9.9	9.77	105.9	31.80	0.030
	Btm	9.8	9.83	106.1	31.83	0.040
88 7 28	0 m	11.1	9.68	0.0	0.00	0.060
	10 m	10.7	9.49	0.0	0.00	0.070
	Btm	10.2	9.76	0.0	0.00	0.060
88 8 9	0 m	12.9	9.22	106.6	31.98	0.090
	10 m	11.3	9.17	102.6	31.98	0.080
	Btm	10.4	9.13	100.2	32.08	0.060
88 8 16	0 m	11.2	8.91	99.3	32.04	0.080
	10 m	10.9	9.10	100.9	32.07	0.070
	Btm	10.7	9.11	100.5	32.11	0.070
88 8 23	0 m	13.2	8.86	103.3	32.00	0.070
	10 m	11.4	8.60	96.4	32.00	0.070
	Btm	10.6	8.49	93.6	32.19	0.060
88 8 30	0 m	12.2	9.26	105.5	31.94	0.080
	10 m	11.1	9.19	102.1	31.68	0.000
	Btm	10.7	9.35	103.0	31.61	0.060
88 9 6	0 m	12.1	9.10	103.3	31.63	0.070
	10 m	12.7	9.84	113.2	31.77	0.090
	Btm	0.0	0.00	0.0	0.00	0.120
88 9 21	0 m	11.2	8.14	91.1	32.26	0.090
	10 m	11.1	8.08	90.1	32.30	0.070

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 11						
	Btm	11.3	8.15	91.4	32.47	0.050
88 9 27	0 m	11.2	8.30	92.9	32.38	0.070
	10 m	11.0	8.27	92.0	32.34	0.060
	Btm	11.0	8.23	91.7	32.45	0.050
88 10 4	0 m	11.0	8.38	93.4	32.54	0.070
	10 m	10.9	8.07	89.8	32.58	0.050
	Btm	10.7	8.16	90.5	32.61	0.040
88 10 18	0 m	10.0	8.88	96.7	32.63	0.060
	10 m	10.4	8.80	96.8	32.67	0.050
	Btm	9.9	8.56	93.2	32.61	0.040
88 10 25	0 m	10.0	8.89	96.8	32.30	0.040
	10 m	10.0	8.00	87.1	32.31	0.040
	Btm	9.9	8.79	95.6	32.46	0.040
88 11 8	0 m	9.0	9.20	97.6	31.82	0.040
	10 m	9.4	9.11	97.6	31.79	0.030
	Btm	9.9	0.00	0.0	32.28	0.020
88 12 1	0 m	7.0	9.61	97.4	31.88	0.030
	10 m	8.0	9.34	97.0	31.88	0.040
	Btm	7.8	9.44	97.6	32.05	0.040
88 12 8	0 m	6.0	9.45	94.0	32.25	0.020
	10 m	5.8	9.14	90.4	32.25	0.030
	Btm	5.8	9.01	89.2	32.45	0.020
89 1 19	0 m	2.2	10.54	95.2	32.18	0.020
	10 m	1.9	10.56	94.8	32.38	0.020
	Btm	1.9	9.98	89.6	32.40	0.020
89 2 2	0 m	1.1	11.23	98.7	32.23	0.020
	10 m	0.7	11.24	97.7	32.16	0.020
	Btm	0.8	11.26	98.5	32.48	0.030
89 3 15	0 m	1.0	11.86	103.8	32.05	0.020
	10 m	2.7	11.84	108.3	32.03	0.020
	Btm	1.0	11.67	102.3	32.06	0.020
Station 12						
88 1 20	0 m	2.2	11.30	102.0	31.94	0.316
88 3 16	0 m	1.5	11.30	99.9	31.58	0.271
88 5 11	0 m	5.2	11.58	112.0	31.18	0.000
88 5 25	0 m	0.0	11.19	0.0	31.32	3.272
88 6 1	0 m	9.2	11.41	121.1	31.25	3.290
88 6 7	0 m	8.5	11.20	117.1	31.22	0.330
88 6 14	0 m	10.5	11.95	131.0	31.51	0.210
88 6 22	0 m	10.8	11.30	124.7	31.69	0.160
88 6 28	0 m	10.9	10.65	119.3	33.72	0.080
88 7 5	0 m	10.5	9.87	108.1	31.63	0.710
88 7 12	0 m	11.6	9.80	110.0	31.79	0.030
88 7 19	0 m	11.2	10.02	111.6	31.79	0.070
88 8 9	0 m	14.8	10.13	121.9	31.92	0.070
88 8 16	0 m	12.1	9.17	104.4	31.96	0.080
88 8 23	0 m	13.9	8.74	110.2	32.00	0.080
88 8 30	0 m	12.2	11.07	125.8	31.46	0.060
88 9 6	0 m	12.5	10.06	0.0	0.00	0.100
88 9 21	0 m	11.2	8.36	93.4	32.25	0.120
88 9 27	0 m	11.2	8.51	95.2	32.34	0.070
88 10 4	0 m	11.4	8.98	0.0	0.00	0.100
88 10 18	0 m	0.0	9.11	0.0	32.63	0.070
88 10 25	0 m	10.0	8.83	95.9	31.93	0.050
88 11 8	0 m	8.9	9.65	102.2	31.79	0.060
88 12 1	0 m	6.5	9.38	93.9	31.70	0.040
88 12 8	0 m	5.0	9.77	94.6	32.08	0.030
89 1 19	0 m	1.8	10.90	97.6	32.30	0.020
89 2 2	0 m	2.4	11.62	105.6	32.13	0.020
89 3 15	0 m	1.5	11.94	105.9	32.04	0.020

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 13						
88 5 11	0 m	4.9	11.36	109.2	31.27	0.000
	10 m	5.1	11.60	112.0	31.30	0.000
	Btm	5.0	11.02	106.3	31.38	0.000
88 5 25	0 m	6.5	11.12	111.0	31.28	4.448
	10 m	5.8	11.27	110.9	31.46	3.248
	Btm	5.6	11.26	110.2	31.52	2.807
88 6 1	0 m	7.1	11.57	117.2	31.45	7.650
	10 m	6.5	11.41	113.9	31.34	3.810
	Btm	6.1	11.46	113.5	31.47	1.070
88 6 7	0 m	7.5	0.00	0.0	31.37	0.410
	10 m	6.6	10.33	103.5	31.39	0.430
	Btm	6.7	10.74	107.8	31.43	0.410
88 6 14	0 m	8.3	11.51	120.0	31.59	0.420
	10 m	7.1	11.78	119.4	31.57	0.410
	Btm	6.9	11.74	118.5	31.57	0.360
88 6 22	0 m	9.8	11.61	125.4	31.65	0.350
	10 m	7.7	11.83	121.8	31.64	0.450
	Btm	7.6	11.53	118.5	31.66	0.530
88 6 28	0 m	9.8	10.79	118.1	33.79	0.110
	10 m	8.2	10.76	113.5	33.75	0.290
	Btm	8.1	10.63	112.1	33.74	0.230
88 7 5	0 m	9.9	10.06	108.7	31.66	0.090
	10 m	8.6	9.98	104.8	31.67	0.130
88 7 19	0 m	10.5	9.34	102.5	31.72	0.060
	10 m	10.0	9.40	102.0	31.73	0.050
	Btm	9.6	9.28	99.7	31.78	0.040
88 7 28	0 m	10.8	9.80	108.1	31.61	0.040
	10 m	10.4	9.91	108.2	31.60	0.050
	Btm	10.5	9.83	107.6	31.62	0.050
88 8 9	0 m	12.5	9.53	109.4	31.95	0.090
	10 m	11.6	9.43	106.0	31.95	0.090
	Btm	10.5	9.25	101.7	32.00	0.070
88 8 16	0 m	11.4	9.17	102.8	31.95	0.070
	10 m	11.1	9.11	101.3	31.94	0.070
	Btm	11.2	9.08	101.3	31.94	0.070
88 8 23	0 m	12.3	8.91	101.8	32.08	0.070
	10 m	11.1	8.61	95.8	32.05	0.000
	Btm	10.9	8.68	96.3	32.08	0.080
88 8 30	0 m	11.7	9.27	104.6	31.96	0.090
	10 m	11.2	8.50	94.8	32.00	0.080
	Btm	11.1	9.59	106.8	32.06	0.090
88 9 6	0 m	11.8	9.46	107.0	32.05	0.140
	10 m	12.4	9.28	106.2	32.03	0.120
	Btm	11.1	10.12	112.6	32.07	0.130
88 9 21	0 m	11.1	8.63	96.4	32.31	0.200
	10 m	11.3	8.44	94.7	32.28	0.170
	Btm	11.1	8.36	93.2	32.32	0.170
88 9 27	0 m	11.0	8.32	92.7	32.45	0.090
	10 m	11.0	8.33	92.7	32.40	0.090
	Btm	11.0	8.32	92.7	32.41	0.100
88 10 4	0 m	11.0	8.43	94.0	32.52	0.070
	10 m	11.0	8.45	94.0	32.47	0.070
	Btm	10.9	8.18	90.9	32.56	0.050
88 10 18	0 m	10.0	8.55	93.4	32.63	0.050
	10 m	10.2	8.58	94.0	32.65	0.050

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 13						
	Btm	10.0	8.53	93.0	32.67	0.050
88 10 25	0 m	10.0	8.87	96.6	32.42	0.040
	10 m	10.0	8.77	95.6	32.44	0.040
	Btm	10.0	8.81	96.0	32.51	0.040
88 11 8	0 m	9.9	8.88	96.5	32.23	0.030
	10 m	9.4	8.88	95.5	32.27	0.020
	Btm	7.2	8.94	91.4	32.29	0.020
88 12 1	0 m	7.2	8.94	91.4	32.29	0.030
	10 m	7.5	9.44	97.1	32.35	0.040
	Btm	8.8	9.26	98.2	32.33	0.040
88 12 8	0 m	6.5	9.31	93.7	32.47	0.020
	10 m	5.9	9.20	91.3	32.45	0.030
	Btm	6.4	9.17	92.0	32.46	0.030
89 1 20	0 m	2.2	10.51	95.3	32.46	0.020
	10 m	2.2	10.54	95.4	32.47	0.020
	Btm	2.4	10.45	95.0	32.47	0.020
89 2 2	0 m	1.2	10.72	94.5	32.23	0.030
	10 m	0.8	10.76	93.8	32.22	0.030
	Btm	1.2	10.66	94.0	32.36	0.020
89 3 15	0 m	1.0	11.79	103.3	32.09	0.020
	10 m	0.0	11.81	0.0	32.09	0.020
	Btm	0.0	11.66	0.0	32.09	0.020
89 8 10	0 m	11.9	0.00	0.0	32.05	0.000
	Btm	11.5	0.00	0.0	32.03	0.000
89 8 17	0 m	11.8	0.00	0.0	31.92	0.000
	Btm	12.2	0.00	0.0	31.99	0.000
89 8 23	0 m	12.7	0.00	0.0	32.05	0.000
	Btm	0.0	0.00	0.0	32.04	0.000
89 8 30	0 m	11.5	0.00	0.0	32.21	0.000
	Btm	0.0	0.00	0.0	32.19	0.000
89 9 6	0 m	12.1	0.00	0.0	32.27	0.000
	Btm	0.0	0.00	0.0	32.29	0.000
89 9 13	0 m	12.4	0.00	0.0	32.26	0.000
	Btm	14.0	0.00	0.0	32.23	0.000
89 9 20	0 m	12.2	0.00	0.0	32.20	0.000
	Btm	12.7	0.00	0.0	32.29	0.000
89 9 27	0 m	11.2	0.00	0.0	32.48	0.000
	Btm	0.0	0.00	0.0	32.48	0.000
89 10 5	0 m	10.8	0.00	0.0	32.61	0.000
	Btm	10.6	0.00	0.0	32.58	0.000
89 10 11	0 m	10.2	0.00	0.0	32.62	0.000
	Btm	10.8	0.00	0.0	32.62	0.000
89 10 18	0 m	10.0	0.00	0.0	32.55	0.000
	Btm	8.0	0.00	0.0	32.50	0.000
89 10 25	0 m	10.0	0.00	0.0	32.59	0.000
	Btm	12.0	0.00	0.0	32.54	0.000
89 11 7	0 m	9.9	0.00	0.0	32.48	0.000
	Btm	11.7	0.00	0.0	32.51	0.000
89 11 20	0 m	8.9	0.00	0.0	32.35	0.000
	Btm	6.9	0.00	0.0	32.43	0.000
89 12 12	0 m	3.9	0.00	0.0	32.88	0.000
	Btm	2.9	0.00	0.0	32.07	0.000

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 14						
88 5 11	0 m	5.0	11.22	107.4	30.91	0.000
	10 m	4.8	11.97	114.6	31.03	0.000
	Btm	5.3	11.77	114.2	31.20	0.000
88 5 25	0 m	7.2	11.68	118.3	31.01	1.895
	10 m	5.9	11.03	108.8	31.41	7.117
88 6 1	0 m	7.9	11.43	117.9	31.09	7.430
	10 m	6.4	11.24	112.1	31.41	0.840
88 6 7	0 m	7.8	11.58	119.2	31.25	0.004
	10 m	7.5	11.57	118.3	31.19	0.003
88 6 14	0 m	9.1	10.86	115.2	31.45	0.450
	10 m	7.3	10.80	110.1	31.48	0.410
88 6 22	0 m	11.0	9.73	107.5	31.10	0.170
	10 m	8.9	9.80	103.4	31.40	0.270
88 6 28	0 m	9.5	10.98	119.1	33.44	0.150
	10 m	9.2	9.82	105.9	33.48	0.170
88 7 5	0 m	10.3	9.93	108.4	31.58	0.090
	10 m	9.0	9.80	103.7	31.58	0.100
88 7 12	0 m	11.8	9.21	103.9	31.61	0.020
	10 m	9.3	9.38	100.2	31.70	0.040
88 7 19	0 m	12.0	9.83	111.2	31.60	0.110
	10 m	10.3	9.87	107.6	31.68	0.060
	Btm	10.1	9.28	100.8	31.70	0.050
88 7 28	0 m	11.8	9.55	0.0	0.00	0.070
	10 m	11.0	9.78	0.0	0.00	0.050
88 8 2	0 m	12.0	9.93	112.6	31.75	0.070
	10 m	10.4	9.59	104.9	31.79	0.060
	Btm	10.5	8.95	98.1	31.82	0.060
88 8 9	0 m	13.5	9.82	114.8	31.74	0.170
	10 m	11.2	9.36	104.3	31.84	0.110
88 8 16	0 m	11.8	8.74	98.7	31.87	0.080
	10 m	11.2	9.11	101.5	31.96	0.070
88 8 23	0 m	13.0	8.93	0.0	0.00	0.060
88 8 30	0 m	12.7	8.87	101.6	31.32	0.090
	10 m	11.4	0.00	0.0	0.00	0.000
88 9 6	0 m	12.1	9.82	111.3	31.39	0.260
	10 m	12.5	10.32	118.2	31.75	0.160
88 9 21	0 m	11.1	8.23	91.7	32.27	0.120
	10 m	11.3	8.20	91.7	32.31	0.040
88 9 27	0 m	11.3	8.29	92.8	32.24	0.070
	10 m	11.0	8.25	91.8	32.35	0.070
88 10 4	0 m	11.0	8.48	94.3	32.23	0.070
	10 m	10.9	8.30	92.3	32.39	0.050
88 10 18	0 m	10.0	8.69	94.8	32.51	0.040
	10 m	9.9	8.76	95.2	32.53	0.040
88 10 25	0 m	9.7	8.75	94.7	32.38	0.040
	10 m	10.0	9.58	104.4	32.40	0.040
88 11 8	0 m	8.8	9.04	95.2	31.28	0.050
	10 m	9.5	8.86	0.0	0.00	0.030
88 12 1	0 m	7.0	9.56	96.8	31.72	0.030
	10 m	8.6	9.27	97.8	32.10	0.000
88 12 12	0 m	6.0	9.20	91.3	32.12	0.020
	10 m	5.8	9.36	92.3	32.10	0.020
89 1 19	0 m	2.2	10.64	96.2	32.33	0.020
	10 m	1.9	10.49	94.1	32.38	0.020
89 2 7	0 m	0.9	11.31	98.8	32.09	0.010

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 14						
	10 m	0.6	11.36	98.4	32.07	0.020
89 3 15	0 m	1.0	11.73	102.6	32.01	0.020
	10 m	1.0	11.59	101.4	32.00	0.020
89 8 10	0 m	12.5	0.00	0.0	31.43	0.000
	Btm	13.5	0.00	0.0	31.81	0.000
89 8 17	0 m	12.2	0.00	0.0	31.62	0.000
	Btm	11.9	0.00	0.0	31.73	0.000
89 8 23	0 m	12.6	0.00	0.0	32.01	0.000
	Btm	13.4	0.00	0.0	31.92	0.000
89 8 30	0 m	12.0	0.00	0.0	32.01	0.000
	Btm	12.6	0.00	0.0	32.00	0.000
89 9 6	0 m	11.9	0.00	0.0	32.05	0.000
	Btm	12.3	0.00	0.0	32.25	0.000
89 9 13	0 m	13.3	0 00	0.0	31.14	0.000
	Btm	13.5	0.00	0.0	31.98	0.000
89 9 20	0 m	12.6	0.00	0.0	31.98	0.000
	Btm	13.6	0.00	0.0	32.00	0.000
89 9 27	0 m	11.8	0.00	0.0	32.24	0.000
	Btm	12.7	0.00	0.0	32.15	0.000
89 10 5	0 m	10.5	0.00	0.0	32.08	0.000
	Btm	10.6	0.00	0.0	32.23	0.000
89 10 11	0 m	10.2	0.00	0.0	32.22	0.000
	Btm	10.8	0.00	0.0	32.51	0.000
89 10 18	0 m	9.6	0.00	0.0	32.41	0.000
	Btm	7.1	0.00	0.0	32.34	0.000
89 10 25	0 m	10.8	0.00	0.0	32.06	0.000
	Btm	9.4	0.00	0.0	32.41	0.000
89 11 7	0 m	9.5	0.00	0.0	32.20	0.000
	Btm	0.0	0.00	0.0	32.38	0.000
89 11 20	0 m	8.5	0.00	0.0	31.78	0.000
	Btm	6.1	0.00	0.0	32.27	0.000
89 12 12	0 m	3.2	0.00	0.0	32.50	0.000
	Btm	0.4	0.00	0.0	32.43	0.000
Station 15						
88 5 25	0 m	0.0	11.10	0.0	30.77	1.385
88 6 1	0 m	8.0	12.36	127.4	30.87	5.310
	1 m	8.0	12.38	127.7	30.77	14.200
	Btm	7.7	12.29	125.9	30.87	9.730
88 6 7	0 m	7.5	11.43	116.7	31.18	0.005
	1 m	7.4	12.29	125.3	31.20	0.005
	Btm	6.1	4.15	41.1	31.43	0.006
88 6 14	0 m	8.9	13.68	144.8	31.53	0.370
	1 m	8.4	12.69	132.7	31.50	0.400
	Btm	7.1	11.64	118.2	31.53	0.670
88 6 22	0 m	10.8	13.28	146.5	31.54	0.050
	1 m	10.0	12.55	135.9	31.49	0.020
	Btm	8.3	10.86	113.4	31.53	0.690
88 6 28	0 m	10.1	12.41	136.7	33.71	0.070
	1 m	10.0	12.26	134.7	33.69	0.080
	Btm	8.1	11.21	118.0	33.76	0.570
88 7 5	0 m	11.6	10.70	120.0	31.42	0.050
	1 m	11.0	10.32	114.1	31.40	0.040
	Btm	8.8	10.96	115.5	31.37	0.180
88 7 12	0 m	11.0	10.23	113.4	31.57	0.050
	1 m	10.9	10.06	111.1	31.56	0.060
	Btm	9.8	10.30	111.3	31.59	0.080
88 7 19	0 m	11.8	10.48	118.3	31.55	0.050
	1 m	11.3	10.35	115.2	31.54	0.020
	Btm	10.1	10.01	108.8	31.65	0.050

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 15						
88 7 28	0 m	12.5	9.68	110.4	31.17	0.050
	1 m	11.3	9.96	110.8	31.21	0.060
	Btm	11.3	10.16	113.0	31.26	0.040
88 8 2	0 m	13.7	10.38	121.7	31.50	0.050
	1 m	11.3	10.15	113.0	31.56	0.050
	Btm	10.1	8.97	97.6	31.72	0.030
88 8 9	0 m	14.7	10.16	121.7	31.72	0.150
	1 m	13.0	9.97	115.4	31.71	0.080
	Btm	11.4	10.19	113.9	31.80	0.170
88 8 16	0 m	13.0	9.12	105.4	31.50	0.110
	1 m	12.4	9.21	105.2	31.52	0.100
	Btm	11.9	9.40	106.2	31.68	0.080
88 8 23	0 m	12.8	9.33	107.7	31.90	0.050
	1 m	12.3	9.18	104.8	31.88	0.040
	Btm	11.2	9.09	101.5	31.99	0.060
88 8 30	0 m	12.6	9.33	107.0	31.71	0.070
	1 m	12.4	8.45	96.7	31.66	0.060
	Btm	11.2	8.67	96.6	31.95	0.050
88 9 6	0 m	12.1	9.91	111.5	30.34	0.390
	1 m	12.0	10.76	120.8	30.21	0.270
	Btm	11.7	12.11	136.5	31.89	0.760
88 9 21	0 m	12.0	9.56	108.6	32.00	0.470
	1 m	11.4	9.57	107.1	31.82	0.330
	Btm	11.8	9.66	109.3	32.21	0.450
88 9 27	0 m	11.7	8.73	98.8	32.36	0.210
	1 m	11.5	8.52	95.8	32.34	0.160
	Btm	11.0	8.22	91.6	32.44	0.090
88 10 4	0 m	10.7	8.28	91.8	32.56	0.100
	1 m	10.9	8.27	92.1	32.53	0.180
	Btm	10.8	8.16	90.7	32.61	0.090
88 10 11	0 m	10.5	0.00	0.0	32.37	0.080
	1 m	10.2	0.00	0.0	32.40	0.090
	Btm	10.3	0.00	0.0	32.48	0.070
88 10 18	0 m	10.5	8.63	95.3	32.74	0.100
	1 m	9.8	8.80	95.6	32.72	0.110
	Btm	10.3	8.83	97.0	32.71	0.100
88 11 8	0 m	9.5	9.25	99.6	32.34	0.060
	1 m	10.0	9.08	98.8	32.25	0.070
	Btm	9.7	9.19	99.4	32.29	0.070
88 12 1	0 m	6.8	9.45	95.2	31.84	0.050
	1 m	7.0	9.35	94.9	31.88	0.050
	Btm	8.1	9.31	97.5	32.66	0.050
88 12 8	0 m	6.4	9.58	96.3	32.74	0.030
	1 m	5.7	9.47	93.6	32.69	0.050
	Btm	6.3	9.23	92.7	32.77	0.040
89 1 19	0 m	2.0	10.89	96.1	32.49	0.020
	1 m	1.4	10.86	94.3	32.48	0.030
	Btm	1.9	10.74	94.6	32.52	0.030
89 2 2	0 m	1.5	11.29	100.3	32.25	0.090
	1 m	0.8	11.32	98.7	32.30	0.080
	Btm	0.0	11.33	0.0	32.28	0.030
89 4 12	0 m	2.5	11.51	104.3	31.45	0.020
	1 m	3.4	11.48	106.3	31.44	0.020
	Btm	3.3	11.51	106.5	31.59	0.030
89 4 25	0 m	0.0	11.54	0.0	31.17	0.020
	1 m	0.0	11.48	0.0	31.07	0.020
	Btm	0.0	11.56	0.0	31.50	0.000
89 5 10	0 m	0.0	11.12	0.0	0.00	1.650
	1 m	0.0	11.29	0.0	0.00	1.810
	Btm	0.0	11.10	0.0	0.00	1.450

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 15						
89 5 24	0 m	7.0	10.66	0.0	0.00	0.000
	1 m	7.2	10.75	0.0	0.00	0.000
	Btm	6.3	10.81	0.0	0.00	0.510
89 6 7	0 m	8.8	0.00	0.0	30.98	0.000
	1 m	7.1	0.00	0.0	30.93	0.000
	Btm	7.0	0.00	0.0	30.98	0.000
89 6 21	0 m	10.4	0.00	0.0	30.86	0.000
	1 m	10.5	0.00	0.0	30.83	0.000
	Btm	8.8	0.00	0.0	31.06	0.000
89 6 28	0 m	11.0	0.00	0.0	0.00	0.000
	1 m	11.5	0.00	0.0	0.00	0.000
	Btm	9.3	0.00	0.0	0.00	0.000
89 7 4	0 m	9.5	0.00	0.0	31.57	0.000
	1 m	10.5	0.00	0.0	0.00	0.000
	Btm	9.6	0.00	0.0	0.00	0.000
89 7 12	0 m	11.4	0.00	0.0	0.00	0.000
	Btm	12.5	0.00	0.0	31.72	0.000
89 7 18	0 m	12.5	0.00	0.0	31.72	0.000
	Btm	13.5	0.00	0.0	32.13	0.000
89 7 26	0 m	12.5	0.00	0.0	31.91	0.000
	Btm	13.5	0.00	0.0	31.91	0.000
89 8 2	0 m	13.5	0.00	0.0	31.95	0.000
	Btm	11.5	0.00	0.0	32.90	0.000
89 8 10	0 m	13.0	0.00	0.0	31.89	0.001
	Btm	14.5	0.00	0.0	31.93	0.009
89 8 17	0 m	13.9	9.09	107.2	31.81	1.150
	Btm	15.6	8.77	107.2	31.95	0.570
89 8 23	0 m	13.2	8.34	97.0	32.05	1.590
	Btm	11.8	8.44	95.5	32.04	1.850
89 8 30	0 m	13.4	9.02	105.5	32.13	4.820
	Btm	12.5	8.44	97.0	32.22	0.990
89 9 6	0 m	13.0	8.49	98.7	32.31	1.270
	Btm	13.0	5.75	66.7	32.31	0.940
89 9 13	0 m	14.9	11.28	135.8	31.77	7.210
	Btm	17.2	0.00	0.0	31.99	9.070
89 9 20	0 m	13.3	8.60	100.3	31.96	6.780
	Btm	13.8	7.97	94.1	32.29	2.480
89 9 27	0 m	11.1	7.87	88.1	32.56	0.640
	Btm	11.8	7.71	87.3	32.59	0.640
89 10 5	0 m	10.3	8.12	89.2	32.62	1.830
	Btm	10.6	8.07	89.0	32.51	1.910
89 10 11	0 m	9.9	7.92	86.3	32.78	1.400
	Btm	10.8	7.85	87.3	32.74	1.460
89 10 18	0 m	10.0	7.86	85.8	32.59	0.890
	Btm	8.2	7.83	82.1	32.62	0.990
89 10 25	0 m	10.8	8.40	93.2	32.40	0.440
	Btm	14.5	7.97	95.8	32.71	0.150
89 11 7	0 m	9.8	8.43	91.4	32.56	1.620
	Btm	11.2	8.44	94.5	32.54	0.630
89 11 20	0 m	8.4	8.61	90.4	32.50	0.960
	Btm	7.2	8.72	89.2	32.45	1.050
89 12 12	0 m	1.5	9.24	0.0	0.00	0.350
	Btm	1.2	9.08	0.0	0.00	0.380

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 16						
88 5 25	0 m	6.7	11.05	110.8	31.36	2.630
	10 m	5.6	11.09	108.4	31.42	3.206
	Btm	5.6	11.46	112.1	31.41	3.653
88 6 1	0 m	6.8	11.69	117.5	31.42	3.830
	10 m	6.1	11.73	116.3	31.50	5.010
	25 m	5.8	11.41	112.2	31.62	3.160
	50 m	5.3	11.66	113.5	31.85	2.100
88 6 7	0 m	6.8	10.50	105.7	31.35	0.005
	10 m	6.6	11.02	110.3	31.31	0.004
	25 m	6.4	11.11	110.8	31.37	0.003
	50 m	6.2	10.84	107.7	31.47	0.003
88 6 14	0 m	8.8	13.09	138.8	31.53	0.510
	10 m	7.5	12.17	124.7	31.53	0.470
	25 m	6.7	12.27	123.4	31.63	0.430
	50 m	6.3	11.00	109.6	31.71	0.310
88 6 22	0 m	8.8	12.68	134.0	31.61	0.350
	10 m	7.6	11.56	118.8	31.57	0.320
	25 m	7.4	12.20	124.8	31.62	0.180
	50 m	6.6	11.24	112.8	31.73	0.290
88 6 28	0 m	8.6	10.44	111.2	33.72	0.120
	10 m	9.0	11.77	126.4	33.74	0.150
	25 m	7.9	10.50	110.0	33.75	0.140
	50 m	7.8	10.09	105.5	33.79	0.160
88 7 5	0 m	9.4	10.02	107.1	31.67	0.090
	10 m	8.3	10.07	105.1	31.65	0.090
	25 m	8.3	9.88	103.2	31.70	0.090
	50 m	8.5	9.83	103.0	31.65	0.100
88 7 12	0 m	10.0	10.12	109.8	31.67	0.110
	10 m	9.2	9.83	104.7	31.70	0.070
	25 m	8.6	9.41	99.0	31.79	0.040
	50 m	7.9	9.35	96.8	31.94	0.000
88 7 19	0 m	10.1	9.53	103.6	31.71	0.090
	10 m	9.6	10.02	107.7	31.74	0.040
	25 m	9.6	10.02	107.7	31.75	0.050
	50 m	9.0	9.58	101.7	31.88	0.030
88 7 28	0 m	10.2	9.85	107.4	31.69	0.040
	10 m	10.0	9.84	106.7	31.67	0.040
	25 m	9.6	9.66	103.9	31.82	0.040
	50 m	9.0	9.89	105.2	32.01	0.030
88 8 2	0 m	11.1	9.57	106.4	31.74	0.060
	10 m	10.2	9.97	108.7	31.75	0.050
	25 m	8.8	9.98	105.6	32.14	0.020
	50 m	8.0	9.44	98.4	32.51	0.010
88 8 9	0 m	11.2	9.48	105.7	31.94	0.090
	10 m	10.7	9.44	104.1	31.89	0.090
	25 m	10.4	9.45	103.7	31.95	0.070
	50 m	10.2	9.33	102.0	32.04	0.060
88 8 16	0 m	11.8	9.67	109.0	31.74	0.130
	10 m	11.1	9.38	104.3	31.90	0.080
	25 m	10.9	9.22	102.2	31.97	0.060
	50 m	10.5	9.14	100.5	32.09	0.050
88 8 23	0 m	11.7	8.84	99.6	32.04	0.090
	10 m	11.0	8.81	97.9	32.03	0.090
	25 m	11.0	8.86	98.6	32.06	0.080
	50 m	10.7	8.75	96.7	32.14	0.060

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 16						
88 8 30	0 m	11.2	11.12	123.9	31.95	0.100
	10 m	10.9	9.05	100.5	32.10	0.070
	25 m	10.8	9.16	101.4	32.14	0.060
	50 m	10.2	8.97	98.0	32.36	0.050
88 9 6	0 m	12.0	9.79	110.9	31.68	0.000
	10 m	11.5	9.17	102.8	31.81	0.000
	25 m	11.5	9.09	102.0	32.01	0.000
	50 m	10.4	9.08	99.8	32.31	0.000
88 9 21	0 m	10.9	8.47	94.1	32.35	0.190
	10 m	11.0	8.55	95.4	32.35	0.130
	25 m	10.9	8.42	93.5	32.36	0.140
	50 m	10.4	8.18	90.1	32.51	0.070
88 9 27	0 m	11.2	8.38	93.7	32.38	0.110
	10 m	11.0	8.17	91.0	32.49	0.070
	25 m	11.0	8.22	91.7	32.49	0.070
	50 m	11.1	8.17	91.3	32.54	0.070
88 10 4	0 m	10.9	8.35	93.0	32.47	0.050
	10 m	10.9	8.28	92.1	32.43	0.060
	25 m	10.8	8.32	92.3	32.46	0.050
	50 m	10.9	8.27	91.9	32.54	0.040
88 10 25	0 m	10.0	8.96	97.7	32.53	0.040
	10 m	10.0	8.96	97.7	32.49	0.040
	25 m	10.0	8.88	96.9	32.53	0.040
	50 m	9.9	8.73	95.0	32.59	0.030
88 11 8	0 m	9.0	9.15	97.1	31.74	0.020
	10 m	9.5	8.96	96.3	31.93	0.020
	25 m	9.5	9.00	96.9	32.20	0.030
	50 m	10.0	8.73	95.3	32.59	0.020
88 12 1	0 m	7.0	9.66	98.1	32.08	0.030
	10 m	7.8	9.37	96.9	32.18	0.040
	25 m	7.5	9.56	98.3	32.35	0.030
	50 m	7.8	9.25	95.9	32.53	0.030
88 12 8	0 m	6.9	9.01	91.7	32.68	0.020
	10 m	6.5	9.03	91.0	32.70	0.030
	25 m	6.6	9.02	91.0	32.68	0.020
	50 m	6.7	8.80	89.2	32.84	0.020
89 1 19	0 m	2.0	10.79	97.1	32.38	0.030
	10 m	2.4	10.49	95.4	32.48	0.020
	25 m	2.4	10.52	95.7	32.47	0.020
	50 m	2.4	10.51	95.8	32.54	0.020
89 2 2	0 m	1.5	11.19	99.4	32.26	0.020
	10 m	1.9	11.18	100.3	32.25	0.020
	25 m	1.6	11.14	99.2	32.36	0.030
	50 m	1.5	11.22	99.6	32.26	0.020
89 4 12	0 m	2.8	11.61	105.4	30.55	0.020
	10 m	0.0	11.49	0.0	31.03	0.020
	25 m	0.0	11.62	0.0	31.34	0.020
	50 m	0.3	11.57	99.2	31.71	0.020
89 4 25	0 m	3.0	11.30	103.4	30.90	0.020
	10 m	0.0	11.36	0.0	31.08	0.030
	25 m	3.0	11.31	103.7	31.31	0.030
	50 m	0.0	11.16	0.0	31.66	0.020
89 5 10	0 m	4.9	11.51	0.0	0.00	1.390
	10 m	4.2	11.10	0.0	0.00	0.752
	25 m	6.8	11.00	0.0	0.00	0.421

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 16						
	50 m	6.8	10.83	0.0	0.00	0.649
89 5 25	0 m	6.5	10.57	0.0	0.00	0.000
	10 m	0.0	10.52	0.0	0.00	1.720
	25 m	0.0	10.46	0.0	0.00	1.350
	50 m	6.2	10.50	0.0	0.00	0.760
89 6 7	0 m	7.8	0.00	0.0	31.23	0.000
	10 m	5.9	0.00	0.0	31.27	0.000
	25 m	5.8	0.00	0.0	31.54	0.000
	50 m	7.9	0.00	0.0	31.82	0.000
89 6 14	0 m	8.9	0.00	0.0	30.92	0.000
	10 m	8.2	0.00	0.0	30.90	0.000
	25 m	7.3	0.00	0.0	31.14	0.000
	50 m	5.9	0.00	0.0	31.86	0.000
89 6 21	0 m	9.5	0.00	0.0	30.91	0.000
	10 m	7.7	0.00	0.0	31.31	0.000
	25 m	7.3	0.00	0.0	31.57	0.000
	50 m	6.3	0.00	0.0	32.18	0.000
89 6 28	0 m	9.5	0.00	0.0	0.00	0.000
	10 m	8.7	0.00	0.0	0.00	0.000
	25 m	7.3	0.00	0.0	0.00	0.000
	50 m	8.0	0.00	0.0	0.00	0.000
89 7 4	0 m	8.5	0.00	0.0	0.00	0.000
	10 m	9.0	0.00	0.0	0.00	0.000
	25 m	8.5	0.00	0.0	32.28	0.000
	50 m	7.9	0.00	0.0	0.00	0.000
89 7 12	0 m	10.3	0.00	0.0	0.00	0.000
	10 m	12.5	0.00	0.0	0.00	0.000
	25 m	8.8	0.00	0.0	0.00	0.000
	50 m	0.0	0.00	0.0	0.00	0.000
89 7 18	0 m	11.0	0.00	0.0	31.79	0.000
	10 m	12.5	0.00	0.0	0.00	0.000
	25 m	11.5	0.00	0.0	0.00	0.000
	50 m	10.5	0.00	0.0	30.09	0.000
89 7 26	0 m	10.0	0.00	0.0	0.00	0.000
	10 m	12.0	0.00	0.0	31.98	0.000
	25 m	11.5	0.00	0.0	31.13	0.000
	50 m	11.0	0.00	0.0	32.35	0.000
89 8 2	0 m	12.0	0.00	0.0	31.90	0.000
	10 m	11.5	0.00	0.0	32.02	0.000
	25 m	11.5	0.00	0.0	32.09	0.000
	50 m	11.0	0.00	0.0	32.31	0.000
89 8 10	0 m	12.3	0.00	0.0	32.87	0.007
	10 m	13.3	0.00	0.0	32.01	0.009
	25 m	12.0	0.00	0.0	32.16	0.008
	50 m	12.6	0.00	0.0	32.26	0.007
89 8 17	0 m	14.2	9.30	110.4	31.79	2.000
	10 m	14.0	9.08	107.4	32.02	0.350
	25 m	11.9	8.81	100.0	32.28	0.740
	50 m	12.4	8.38	96.3	32.59	0.685
89 8 23	0 m	13.3	9.12	106.4	32.02	0.000
	10 m	11.3	8.83	98.7	32.07	0.000
	25 m	12.8	8.51	98.3	32.23	0.000
	50 m	11.8	8.21	92.9	32.40	0.000
89 8 30	0 m	12.3	9.13	104.4	32.19	2.520
	10 m	11.3	8.71	97.5	32.28	2.090

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (°/₀₀)	Chl a(µg/L)
Station 16						
	25 m	11.4	8.18	92.0	32.54	1.520
	50 m	11.3	7.87	88.6	32.77	0.530
89 9 6	0 m	12.2	6.09	70.0	32.34	2.550
	10 m	13.2	8.64	100.7	32.39	0.960
	25 m	14.5	8.84	106.0	32.52	0.560
	50 m	13.2	0.00	0.0	32.34	0.960
89 9 13	0 m	14.2	10.52	125.1	32.09	4.980
	10 m	0.0	9.68	0.0	32.37	7.550
	25 m	14.0	0.00	0.0	32.15	1.100
	50 m	13.6	0.00	0.0	32.89	63.750
89 9 20	0 m	13.0	9.38	108.8	32.05	56.650
	10 m	12.0	8.21	93.4	32.34	3.920
	25 m	12.8	7.82	90.8	32.71	2.150
	50 m	12.2	7.51	85.8	32.26	0.740
89 10 5	0 m	10.4	7.69	84.7	32.82	0.810
	10 m	10.7	7.65	84.8	32.73	0.730
	25 m	10.7	7.68	85.2	32.73	0.860
	50 m	10.4	7.21	79.5	32.90	1.950
89 10 25	0 m	10.9	7.99	89.0	32.65	0.270
	10 m	10.4	7.90	87.0	32.68	0.280
	25 m	10.5	7.70	85.0	32.82	0.220
	50 m	10.3	7.44	82.0	33.27	0.210
89 11 7	0 m	10.4	8.33	91.8	32.69	1.700
	10 m	10.2	8.30	90.9	32.64	0.290
	25 m	10.7	8.18	90.7	32.86	0.450
	50 m	10.4	8.41	92.7	32.68	0.410
Station 17						
88 5 25	0 m	9.2	0.00	0.0	26.08	12.530
88 6 1	0 m	8.7	11.18	115.2	28.26	6.730
	1 m	8.5	11.21	115.2	28.62	6.930
	Btm	7.7	11.41	115.6	29.39	4.260
88 6 7	0 m	9.0	11.28	118.5	30.27	0.020
	1 m	8.2	10.35	106.8	30.24	0.020
	Btm	7.7	11.00	112.5	30.55	0.020
88 6 14	0 m	8.9	11.42	119.9	30.43	0.410
	1 m	8.9	11.67	122.6	30.45	0.400
	Btm	8.9	11.56	121.3	30.41	0.450
88 6 22	0 m	11.6	10.98	121.6	29.41	0.060
	1 m	10.8	11.39	124.6	30.23	0.090
	Btm	8.4	12.14	126.6	31.22	0.530
88 6 28	0 m	10.8	11.39	126.8	33.08	0.040
	1 m	10.4	10.72	118.3	33.07	0.170
	Btm	9.2	11.43	123.0	33.28	0.180
88 7 5	0 m	10.0	9.79	105.9	31.25	0.070
	1 m	9.8	9.79	105.4	31.23	0.080
	Btm	9.2	9.63	102.5	31.42	0.090
88 7 12	0 m	12.1	9.19	103.6	30.49	0.020
	1 m	11.9	9.11	102.4	30.65	0.060
	Btm	11.0	9.23	102.0	31.20	0.050
88 7 19	0 m	12.0	7.67	86.5	31.05	0.130
	1 m	11.7	9.67	108.5	31.06	0.070
	Btm	10.9	9.02	99.4	31.34	0.060
88 7 28	0 m	12.0	9.29	104.7	30.68	0.240
	1 m	12.0	9.38	105.6	30.78	0.150
	Btm	11.2	9.50	105.5	31.28	0.160
88 8 2	0 m	12.7	10.50	120.0	30.85	0.190
	1 m	12.5	9.18	104.4	30.70	0.110
	Btm	11.9	9.40	105.9	31.15	0.110

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 17						
88 8 9	0 m	13.6	9.72	113.3	30.97	0.310
	1 m	13.4	9.60	111.4	30.86	0.250
	Btm	11.8	9.38	105.7	31.57	0.160
88 8 16	0 m	13.0	9.08	104.7	31.19	0.110
	1 m	12.9	9.06	104.3	31.16	0.160
	Btm	12.8	9.05	104.0	31.16	0.150
88 8 23	0 m	12.5	8.68	98.7	30.62	0.280
	1 m	12.4	8.75	99.6	31.01	0.120
	Btm	12.1	8.71	98.9	31.53	0.110
88 8 30	0 m	13.1	9.57	109.5	29.56	0.200
	1 m	13.1	8.88	102.0	30.32	0.130
	Btm	12.8	9.05	103.7	30.66	0.130
88 9 6	0 m	0.0	9.74	0.0	29.16	0.000
	1 m	0.0	9.48	0.0	31.36	0.000
	Btm	0.0	9.92	0.0	29.70	0.000
88 9 13	0 m	12.3	6.77	76.5	30.08	0.160
	1 m	12.3	6.54	73.6	30.18	0.140
	Btm	11.8	6.37	71.7	31.34	0.150
88 9 21	0 m	11.8	8.61	96.8	31.38	0.220
	1 m	11.9	8.65	97.5	31.40	0.160
	Btm	11.6	8.66	97.3	31.78	0.190
88 9 27	0 m	11.1	8.43	93.2	30.89	0.110
	1 m	10.3	8.51	92.4	30.88	0.100
	Btm	11.4	8.46	94.0	30.89	0.110
88 10 4	0 m	11.0	8.49	73.9	31.16	0.080
	1 m	11.4	8.35	93.4	31.44	0.070
	Btm	11.3	8.47	94.7	31.85	0.060
88 10 11	0 m	10.5	8.70	95.2	31.22	0.050
	1 m	10.4	8.59	93.9	31.36	0.060
	Btm	11.0	8.64	95.9	31.90	0.060
88 10 18	0 m	10.0	8.90	96.7	31.84	0.040
	1 m	10.0	8.75	0.0	0.00	0.040
	Btm	10.0	8.57	93.1	32.12	0.060
88 10 25	0 m	9.8	9.12	97.6	30.39	0.050
	1 m	9.9	9.15	98.0	29.88	0.040
	Btm	9.7	9.08	97.9	31.79	0.030
88 11 8	0 m	8.5	9.65	97.0	24.91	0.040
	1 m	9.9	9.27	96.9	26.18	0.040
	Btm	9.2	9.00	95.2	30.54	0.030
88 12 1	0 m	6.0	9.67	95.0	30.52	0.030
	1 m	6.7	9.69	96.9	30.74	0.030
	Btm	7.3	9.58	97.7	31.61	0.030
88 12 8	0 m	4.2	9.78	90.9	28.88	0.020
	1 m	6.4	9.51	94.1	30.20	0.030
	Btm	6.3	9.13	90.7	31.14	0.020
89 1 19	0 m	1.5	10.74	94.8	31.28	0.010
	1 m	2.5	10.84	98.1	31.30	0.020
	Btm	2.4	11.20	101.7	32.09	0.030
89 2 2	0 m	0.0	11.27	0.0	31.26	0.020
	1 m	1.4	11.27	99.2	31.31	0.020
	Btm	1.0	11.82	103.3	31.84	0.020
89 3 15	0 m	1.0	12.03	105.0	31.49	0.020
	1 m	0.0	11.87	0.0	31.56	0.020
	Btm	0.0	11.96	0.0	31.55	0.020
89 4 12	0 m	2.0	11.94	102.2	24.85	0.050
	1 m	0.0	11.98	0.0	25.12	0.020
	Btm	0.0	11.57	0.0	30.46	0.040
89 4 25	0 m	2.8	11.66	103.7	27.50	0.030
	1 m	0.0	11.58	0.0	27.53	0.030
	Btm	3.0	11.52	105.3	29.75	0.050

Appendix 2. (cont'd)

Date	Depth	Temp. °C	DO(mg/L)	DO(% sat.)	Salinity (‰)	Chl a(µg/L)
Station 17						
89 5 10	0 m	6.8	10.86	0.0	0.00	0.741
	1 m	6.8	10.83	0.0	0.00	1.060
	Btm	4.6	10.87	0.0	0.00	1.440
89 5 25	0 m	10.0	10.74	0.0	0.00	92.600
	1 m	10.6	10.69	0.0	0.00	0.000
	Btm	0.0	10.45	0.0	0.00	1.880
89 6 7	0 m	8.0	0.00	0.0	29.82	0.000
	1 m	8.0	0.00	0.0	28.94	0.000
	Btm	5.0	0.00	0.0	29.91	0.000
89 6 21	0 m	10.5	0.00	0.0	27.03	0.000
	1 m	10.4	0.00	0.0	27.36	0.000
	Btm	8.2	0.00	0.0	30.01	0.000
89 6 28	0 m	11.0	0.00	0.0	0.00	0.000
	1 m	10.2	0.00	0.0	30.91	0.000
	Btm	9.6	0.00	0.0	31.02	0.000
89 7 4	0 m	11.0	0.00	0.0	0.00	0.000
	1 m	13.0	0.00	0.0	0.00	0.000
	Btm	10.7	0.00	0.0	0.00	0.000
89 7 12	0 m	11.0	0.00	0.0	0.00	0.000
	Btm	13.5	0.00	0.0	0.00	0.000
89 7 18	0 m	12.0	0.00	0.0	29.90	0.000
	Btm	13.5	0.00	0.0	0.00	0.000
89 7 26	0 m	12.0	0.00	0.0	30.45	0.000
	Btm	18.0	0.00	0.0	31.05	0.000
89 8 2	0 m	13.3	0.00	0.0	29.69	0.000
	Btm	12.5	0.00	0.0	30.62	0.000
89 8 10	0 m	13.0	0.00	0.0	30.07	0.001
	Btm	16.0	0.00	0.0	30.83	0.000
89 8 17	0 m	17.0	9.84	122.2	30.08	0.580
	Btm	17.3	9.96	125.0	30.45	0.451
89 8 23	0 m	14.4	8.90	105.3	30.72	1.350
	Btm	14.5	8.20	98.2	32.21	2.090
89 8 30	0 m	13.2	8.52	98.2	30.48	2.730
	Btm	14.6	8.57	102.2	31.23	2.230
89 9 6	0 m	13.0	8.49	97.8	30.98	3.200
	Btm	13.6	8.44	98.7	31.75	2.120
89 9 13	0 m	13.8	8.15	95.0	30.22	9.950
	Btm	15.8	6.95	85.1	31.29	6.220
89 9 20	0 m	13.0	7.86	90.9	31.61	1.670
	Btm	13.6	7.81	91.2	31.05	1.870
89 9 27	0 m	11.8	0.00	0.0	30.55	2.240
	Btm	12.0	8.26	93.1	30.74	1.890
89 10 5	0 m	10.4	8.03	86.7	29.73	0.870
	Btm	11.1	7.76	85.9	31.23	1.230
89 10 11	0 m	10.3	7.57	82.6	31.57	0.800
	Btm	11.2	7.72	85.9	31.63	0.580
89 10 18	0 m	10.0	7.79	84.4	31.61	0.980
	Btm	9.1	7.69	81.8	31.91	1.000
89 10 25	0 m	10.7	8.25	89.2	28.35	1.240
	Btm	12.2	8.05	89.3	27.46	1.420
89 11 7	0 m	9.5	8.37	90.3	32.71	1.350
	Btm	10.7	8.12	89.5	31.91	5.260
89 11 20	0 m	9.0	8.76	92.7	31.26	0.530
	Btm	8.1	8.50	88.4	31.96	0.440
89 12 12	0 m	1.8	8.70	80.8	30.99	0.470
	Btm	1.4	10.62	97.1	31.36	0.440

APPENDIX 3. Phytoplankton densities as number of cells/L for surface seawater in the Western Isles region during 1988.

DATE: 20- 01- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Ceratium longipes	0	0	0	0	20	0	0	0	0	0	0	0					
Dinophysis norvegica	0	0	0	0	0	0	20	0	0	0	0	0					
Gyrodinium aureolum	0	0	0	0	0	0	20	0	0	0	0	0					
Gyrodinium sp.	0	0	0	40	0	0	0	0	0	0	0	0					
Peridinium sp.	0	0	0	0	0	0	20	0	0	0	0	0					
Scrippsiella trochoidea	20	0	0	0	0	0	0	0	0	0	20	0					
Biddulphia aurita	0	0	0	20	0	0	0	0	0	0	20	0					
Biddulphia obtusa	20	0	0	0	0	0	0	0	0	0	20	20					
Chaetoceros debilis	0	0	20	0	0	0	0	0	0	0	0	0					
Chaetoceros socialis	0	0	0	0	20	0	0	20	0	0	20	0					
Corethron criophilum	0	0	0	20	0	0	20	0	20	0	0	0					
Gyrosigma fasciola	20	0	0	40	0	20	0	0	0	0	0	0					
Gyrosigma tennuissimum	0	20	0	0	0	0	0	0	0	0	0	0					
Leptocylindrus danicus	0	0	0	0	0	20	0	0	0	0	0	0					
Leptocylindrus minimus	0	0	40	0	20	0	0	0	0	0	0	0					
Lycmophora lyngbyei	0	0	0	20	0	0	0	0	0	0	0	0					
Melosira nummuloides	0	0	0	0	20	0	0	0	0	0	0	0					
Navicula sp.	40	0	0	20	0	20	0	40	60	40	0	0					
Nitzschia closterium	80	120	440	180	220	120	80	460	380	380	0	60					
Nitzschia pseudodelicatissima	0	60	60	300	40	40	0	180	120	40	0	0					
Pleurosigma angulatum	0	0	0	0	0	0	0	0	0	40	0	0					
Pleurosigma sp.	20	0	0	0	0	0	0	0	0	0	0	0					
Rhizosolenia delicatula	0	0	40	0	20	20	40	0	0	0	0	0					
Rhizosolenia setigera	0	0	20	0	0	0	0	0	0	0	0	0					
Skeletonema costatum	0	0	20	20	0	40	20	100	40	40	60	0					
Thalassiosira condensata	0	20	0	0	0	0	0	0	0	0	0	0					
Thalassiothrix nitzschiodes	0	0	0	0	0	0	0	0	40	0	0	0					
Acartia sp.	0	0	0	0	0	0	0	0	20	0	0	0					
Distephanus speculum	0	0	0	40	0	0	0	20	0	0	0	0					
Euglena sp.	0	20	0	0	0	0	0	0	0	0	0	0					
Mesodinium rubrum	180	80	0	0	0	60	200	0	20	0	0	0					
Tintinnids	0	20	40	0	40	0	20	0	0	80	0	0					

DATE: 16- 03- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Ceratium minutum	0	0	0	0	0	0	0	0	0	20	0	0					
Gyrodinium aureolum	0	0	0	0	20	0	0	0	0	0	0	0					
Gyrodinium sp.	0	0	40	40	0	0	0	0	0	20	0	0					
Peridinium sp.	0	0	0	0	20	0	0	20	0	20	0	0					
Peridinium triqueta	0	0	0	0	0	0	0	0	20	0	0	0					
Achnanthes sp.	0	0	20	0	0	0	0	0	0	0	0	0					
Bacillaria paradoxa	0	0	0	0	0	0	0	20	0	0	0	0					
Biddulphia aurita	0	0	0	40	0	0	0	0	0	20	20	0					
Biddulphia obtusa	0	0	0	40	0	40	0	20	0	0	0	0					
Biddulphia sp.	40	0	0	0	0	0	0	0	0	0	0	0					
Chaetoceros debilis	0	0	0	0	0	0	20	0	0	0	0	0					
Chaetoceros socialis	0	0	20	0	0	0	0	0	0	0	20	0					
Coscinodiscus sp.	0	20	0	0	0	0	0	0	0	0	0	0					
Ditylum brightwelli	0	0	0	0	0	0	0	0	0	20	0	0					
Grammatophora marina	0	0	20	0	0	0	0	0	0	0	0	0					
Gyrosigma littorale	0	0	0	40	0	0	0	0	0	0	0	0					
Gyrosigma prolongatum	0	0	0	20	0	0	0	0	0	0	0	0					
Gyrosigma tennuissimum	0	0	0	0	0	0	40	0	0	0	0	0					
Leptocylindrus minimus	0	0	0	0	0	0	0	0	0	20	0	0					
Melosira nummuloides	0	0	0	20	0	0	0	0	0	0	0	0					
Melosira sp.	0	0	0	0	0	20	0	0	0	0	0	0					
Navicula sp.	0	0	0	20	20	20	40	0	20	40	0	0					
Nitzschia closterium	40	0	0	40	0	0	20	40	20	40	80	0					
Nitzschia pseudodelicatissima	0	0	120	100	0	60	80	0	40	180	180	20					
Rhabdonema arcuatum	0	20	0	0	0	0	0	0	0	0	0	0					
Rhizosolenia delicatula	0	0	0	0	0	0	0	0	0	20	0	0					
Rhizosolenia hebetata	0	0	20	0	0	0	0	0	0	0	0	0					
Rhizosolenia setigera	0	0	0	20	0	0	0	0	20	0	0	0					
Skeletonema costatum	0	20	0	0	0	0	0	40	0	20	0	0					
Thalassiosira condensata	0	20	0	0	0	0	0	0	0	0	0	0					
Thalassiosira gravida	0	0	0	20	0	20	0	20	0	60	40	0					
Thalassiosira nordenskioeldii	0	0	0	0	0	0	0	0	20	0	0	40					
Thalassiosira sp.	0	0	0	0	0	0	0	0	20	0	0	0					
Acartia sp.	0	20	0	20	0	0	0	0	0	0	0	0					
Distephanus speculum	0	0	0	0	0	0	0	0	20	0	0	0					
Euglena sp.	20	0	0	0	40	40	0	60	80	0	0	40					
Eutreptia sp.	0	0	0	0	0	0	20	20	0	0	0	0					
Mesodinium rubrum	40	20	80	40	40	0	0	0	100	0	0	20					
Tintinnids	0	80	180	80	40	40	0	20	0	140	40	0					

DATE: 12- 05- 88 DEPTH: SURFACE

STATION NUMBERS / ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Alexandrium fundyense		0	60	140		100	100	20		20	20	0	40	20			
Alexandrium (duplet)		0	20	60		0	20	0		0	0	0	0	0			
Alexandrium (quadruplet)		0	0	0		20	0	0		0	0	0	0	0			
Gonyaulax spinifera		0	20	0		0	0	0		0	0	0	0	0			
Gyrodinium sp.		140	100	160		40	20	0		0	20	20	0	60			
Peridinium sp.		20	120	20		160	140	60		80	40	40	0	100			
Peridinium triqueta		0	0	0		20	40	0		40	0	0	20	20			
Scrippsiella trochoidea		0	20	0		0	0	0		0	0	0	0	0			
Achnanthes sp.		0	0	20		20	0	0		0	0	0	0	0			
Biddulphia obtusa		0	0	0		0	20	60		0	0	20	0	0			
Chaetoceros affinis		0	0	0		0	0	20		40	0	0	0	0			
Chaetoceros debilis		0	0	20		0	0	40		20	20	20	20	0			
Chaetoceros laciniosus		0	20	0		0	0	0		20	0	0	0	60			
Chaetoceros socialis		20	0	0		0	0	0		0	0	0	0	0			
Chaetoceros sp.		20	20	0		20	20	0		40	0	120	20	60			
Corethron criophilum		0	0	0		0	0	20		0	0	0	0	0			
Coscinodiscus sp.		60	60	40		0	20	0		60	0	0	20	0			
Ditylum brightwelli		0	20	0		0	0	0		0	0	0	0	0			
Fragilaria sp.		40	0	0		0	0	20		0	0	0	0	0			
Gyrosigma baltica		0	0	0		0	20	0		0	0	0	0	0			
Leptocylindrus minimus		0	0	20		0	0	0		0	0	60	0	0			
Lycmophora lyngbyei		20	0	0		0	20	0		0	0	0	0	0			
Melosira nummuloides		80	20	120		0	0	0		0	0	0	0	0			
Navicula sp.		0	0	40		0	0	0		0	0	0	0	0			
Nitzschia closterium		0	0	0		40	0	20		20	0	80	80	0			
Nitzschia pseudodelicatissima		0	0	0		40	0	40		0	0	60	0	20			
Skeletonema costatum		0	0	0		0	0	0		20	0	100	0	0			
Thalassiosira decipiens		0	0	0		0	40	0		0	0	20	0	0			
Thalassiosira gravida		0	20	0		0	20	20		20	60	0	0	60			
Thalassiosira nordenskioeldii		20	0	0		0	0	40		100	0	0	0	0			
Thalassiosira rotula		0	0	160		100	0	0		100	40	20	40	0			
Thalassiosira sp.		0	120	0		0	60	20		40	0	0	0	20			
Acartia sp.		0	20	0		20	0	0		0	0	0	0	0			
Distephanus speculum		0	0	20		80	0	0		0	0	60	0	40			
Euglena sp.		0	0	20		60	120	20		120	120	0	20	0			
Eutreptia sp.		0	0	0		0	80	80		100	140	0	80	0			
Mesodinium rubrum		260	80	120		160	160	180		640	40	40	300	20			
Tintinnids		900	340	820		1000	140	120		440	20	800	60	200			

DATE: 25- 05- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	280	140	480	80	0	300		20	460	120	40	20	40	180	380	40	140
Alexandrium (duplet)	0	0	20	0	0	0		0	0	0	0	0	0	0	20	0	0
Dinophysis acuminata	0	0	0	20	0	0		0	0	0	0	0	0	0	0	0	0
Dinophysis norvegica	0	0	20	0	0	0		0	20	0	0	0	0	0	0	0	0
Gonyaulax spinifera	0	0	0	40	0	0		0	0	0	0	0	0	0	0	0	0
Gyrodinium sp.	0	80	40	1080	260	40		400	60	640	0	0	0	0	180	0	40
Peridinium sp.	400	0	320	780	140	520		240	160	340	0	20	220	120	0	0	0
Peridinium triqueta	40	0	60	80	0	40		60	80	80	0	0	0	0	0	0	0
Scrippsiella trochoidea	40	20	60	220	0	100		60	120	20	0	0	0	0	0	0	0
Biddulphia aurita	0	0	0	60	0	0		0	0	0	0	0	0	0	0	0	0
Biddulphia obtusa	0	0	0	60	0	0		0	0	0	0	0	0	0	0	0	0
Chaetoceros constrictus	40	0	20	0	0	0		0	0	0	80	20	0	180	0	0	0
Chaetoceros convolutus	0	0	0	0	0	0		20	0	0	40	0	0	0	0	0	0
Chaetoceros debilis	0	0	80	160	60	100		880	560	540	2660	1940	6080	5980	0	0	0
Chaetoceros decipiens	0	0	20	0	0	20		60	0	80	260	120	280	180	0	0	0
Chaetoceros laciniosus	0	0	0	0	0	0		20	0	0	20	0	200	60	0	0	0
Chaetoceros sp.	40	0	60	160	80	0		620	60	740	200	300	4260	1200	40	60	40
Chaetoceros teres	0	0	20	0	0	0		20	0	40	100	100	380	200	0	0	0
Coscinodiscus sp.	160	20	80	40	200	160		40	240	40	20	0	100	60	60	0	0
Coscinosira polychorda	0	0	40	80	0	0		80	0	120	60	20	0	40	0	0	60
Fragilaria sp.	0	0	0	20	0	0		0	0	0	0	0	0	20	0	0	0
Gyrosigma sp.	0	0	0	20	0	0		0	0	0	0	0	0	0	0	0	0
Leptocylindrus minimus	0	0	0	0	0	0		60	0	0	0	0	200	0	0	0	20
Lycmophora lyngbyei	0	0	0	20	0	0		0	0	0	0	0	0	0	0	0	0
Melosira nummuloides	0	0	0	140	0	0		40	0	20	0	0	0	0	0	0	0
Navicula sp.	0	0	0	20	20	0		40	20	20	0	40	0	0	0	0	0
Nitzschia closterium	0	0	0	80	20	0		40	0	60	0	20	60	20	0	0	0
Nitzschia pseudodelicatissima	0	0	0	40	0	0		60	0	100	0	0	1000	20	0	0	0
Pleurosigma angulatum	0	0	0	0	0	0		0	0	40	0	0	20	20	0	0	0
Skeletonema costatum	0	0	0	20	0	0		20	0	0	0	0	100	0	0	0	0
Thalassiosira condensata	0	0	0	0	0	20		0	0	0	0	0	0	0	0	0	0
Thalassiosira decipiens	40	0	100	80	60	0		760	0	500	0	100	80	0	0	0	0
Thalassiosira gravida	20	0	20	140	0	0		580	460	160	1560	1820	4480	3460	0	160	140
Thalassiosira nordenskioeldii	0	20	0	0	0	120		0	120	100	100	40	920	60	40	0	0
Thalassiosira sp.	20	0	0	20	0	0		60	0	0	20	0	0	0	0	0	0
Acartia sp.	0	0	0	40	0	0		0	0	0	0	0	0	0	0	0	0
Brachionus sp.	0	0	40	0	20	0		0	0	0	0	0	0	0	0	0	0
Distephanus speculum	40	0	0	0	40	0		20	60	40	0	0	20	0	0	0	0
Euglena sp.	220	2900	160	60	0	100		0	220	0	40	20	80	0	20	40	20
Eutreptia sp.	5780	0	26120	13280	2040	36320		17800	32640	10000	50600	110980	0	120	0	0	0
Favella sp.	0	20	0	0	0	0		20	0	20	0	0	0	0	0	0	0
Helicostomella sp.	0	0	0	20	0	0		0	0	0	0	0	0	0	0	0	0

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Mesodinium rubrum	540	800	400	220	620	1500		100	180	40	340	140	80	120	100	40	10600
Notholca sp.	0	0	0	0	0	0		0	20	0	0	0	0	0	0	0	0
Parafavella sp.	0	0	40	0	0	0		0	0	0	0	0	0	0	0	0	0
Ptychocylis sp.	0	0	0	0	0	20		0	0	0	0	0	0	0	0	0	0
Tintinnids	260	0	500	2840	100	440		1080	260	2900	0	0	440	180	40	0	0
Tintinnopsis sp.	0	60	0	0	0	0		0	0	0	0	0	0	0	120	0	100

DATE: 01-06-88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	280	140	100	200	40	100	80	60	80	100	20	40	20	100	180	60	0
Alexandrium (duplet)	80	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Dinophysis acuminata	0	0	20	0	0	0	0	0	20	0	0	40	0	0	40	0	0
Dinophysis norvegica	0	0	0	0	0	0	0	0	0	20	20	0	20	0	0	0	0
Gonyaulax spinifera	20	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Gyrodinium sp.	0	0	0	0	0	0	220	20	280	120	0	0	0	0	0	0	0
Peridinium denticulatum	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0
Peridinium sp.	240	180	80	280	60	80	300	140	240	100	0	80	320	500	220	0	0
Peridinium triqueta	60	0	20	20	20	20	40	20	40	20	0	0	0	0	80	0	0
Scrippsiella trochoidea	0	0	20	60	0	20	60	40	100	0	0	0	40	20	40	0	0
Achnanthes sp.	0	0	0	0	0	0	100	0	20	20	0	20	0	0	0	0	0
Biddulphia obtusa	0	0	0	60	0	0	0	0	0	20	0	0	0	20	0	0	0
Chaetoceros compressus	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Chaetoceros constrictus	40	20	100	120	240	100	0	200	0	0	0	20	0	60	0	0	0
Chaetoceros debilis	3060	3240	3320	3860	4640	2840	7240	5940	11200	8500	120	1440	5320	5000	8740	500	820
Chaetoceros decipiens	120	80	140	120	160	40	180	200	500	320	0	40	200	460	220	0	0
Chaetoceros furcellatus	20	0	0	20	0	0	20	20	80	0	0	0	440	140	0	0	0
Chaetoceros laciniosus	80	0	40	40	20	0	100	60	60	0	100	80	140	80	20	0	380
Chaetoceros sp.	740	200	280	400	420	160	4760	400	5660	2440	100	120	2080	660	1100	0	60
Chaetoceros teres	60	160	240	100	160	60	240	60	400	80	0	100	60	160	0	0	0
Coscinodiscus sp.	140	180	180	180	140	280	140	100	220	120	0	20	80	20	260	40	0
Coscinosira polychorda	120	80	140	100	200	120	100	300	360	300	0	0	20	80	460	0	0
Ditylum brightwelli	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Fragilaria sp.	0	0	0	0	0	0	120	0	0	0	20	0	0	20	20	0	0
Guinardia flaccida	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Leptocylindrus danicus	0	0	0	100	0	0	0	20	0	0	0	0	0	40	20	0	0
Leptocylindrus minimus	0	0	0	0	20	20	280	40	40	20	0	0	140	20	0	0	100
Lycmophora lyngbyei	0	40	0	0	0	0	0	40	40	0	0	40	0	0	40	0	0
Melosira ambigua	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Melosira monoliformis	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Melosira nummuloides	0	0	0	0	0	0	0	0	40	0	0	0	20	40	0	0	0
Navicula sp.	0	40	0	0	60	40	20	20	40	100	20	0	60	40	0	0	0
Nitzschia closterium	60	60	80	100	60	20	480	0	420	100	0	0	260	0	40	0	20
Nitzschia pseudodelicatissima	20	0	20	40	40	40	3380	60	3860	1180	0	40	2440	0	60	0	80
Pleurosigma angulatum	20	20	80	80	60	80	80	20	20	60	0	0	60	40	0	20	0
Pleurosigma sp.	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Rhizosolenia delicatula	0	0	0	0	0	0	40	0	100	20	40	0	400	0	0	0	0
Rhizosolenia fragillima	20	0	0	0	40	20	120	20	20	60	20	40	120	140	20	0	0
Rhizosolenia hebetata	0	0	0	60	0	0	100	0	0	20	0	0	0	0	0	0	0
Skeletonema costatum	100	380	260	120	60	40	140	20	380	120	0	0	60	0	120	0	0
Thalassiosira condensata	0	0	0	0	0	20	0	60	0	0	0	0	0	40	0	0	0
Thalassiosira decipiens	1600	980	1920	1460	680	420	1200	800	3260	1420	0	0	860	80	0	0	0
Thalassiosira gravida	1600	4840	5560	4060	5140	2820	6560	5720	7560	9980	620	1740	4900	5260	12000	0	280
Thalassiosira nordenskioeldii	200	100	0	80	160	160	360	0	480	0	80	0	1100	140	100	800	160
Thalassiosira sp.	20	0	0	0	0	0	560	20	140	0	0	0	20	0	0	0	0
Thalassiothrix nitzschiodes	0	0	20	0	0	0	0	0	0	20	0	0	0	0	40	0	0
Acartia sp.	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Brachionus sp.	0	20	20	20	0	40	0	0	40	0	20	0	0	20	20	0	0
Distephanus speculum	20	0	0	0	0	20	60	0	40	160	0	0	40	0	0	0	0
Euglena sp.	240	160	360	200	100	100	0	120	20	0	20	0	160	0	540	0	0
Eutreptia sp.	920	340	440	740	400	580	320	320	420	320	0	500	0	240	1100	0	0
Favella sp.	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Helicostomella sp.	0	0	0	0	20	0	20	0	0	0	0	0	20	0	0	0	0
Mesodinium rubrum	380	40	340	540	320	320	180	120	200	100	140	380	200	180	400	40	160
Parafavella sp.	0	0	20	20	20	20	0	0	0	0	0	0	0	0	20	0	0
Ptychocylis sp.	0	20	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Tintinnids	460	60	300	160	60	80	860	60	1180	200	40	200	420	60	80	0	0

DATE: 07-06-88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	280	160	200	80	60	120	100	0	140	320	100	200	100	100	20	20	40
Alexandrium (duplet)	0	0	40	0	20	0	0	0	40	40	0	0	0	0	0	0	0
Ceratium minutum	0	0	0	0	0	0	0	160	0	0	0	0	0	0	0	0	0
Gyrodinium sp.	0	360	80	40	0	80	0	160	0	160	0	0	0	0	20	0	20
Peridinium sp.	40	560	640	120	220	120	0	440	380	280	400	1100	500	1800	0	0	0
Peridinium triqueta	0	40	0	80	40	80	0	0	40	0	0	0	0	0	0	0	0
Scrippsiella trochoidea	0	40	80	0	20	80	0	200	60	40	0	100	0	0	20	0	40
Biddulphia obtusa	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0
Chaetoceros compressus	360	480	520	360	0	320	0	480	0	1160	0	0	0	0	0	0	0
Chaetoceros constrictus	40	0	0	80	60	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros debilis	8520	8520	10640	7840	5360	7440	3200	6640	4320	7080	7800	5600	6500	14300	200	240	340
Chaetoceros decipiens	120	160	120	80	120	320	100	200	100	320	0	300	200	200	0	0	0
Chaetoceros furcellatus	0	0	40	40	100	40	0	80	20	80	0	0	100	500	0	0	0
Chaetoceros laciniosus	120	80	120	160	100	160	0	40	40	0	0	0	400	600	60	40	40
Chaetoceros socialis	0	40	0	0	220	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros sp.	720	640	760	200	780	1000	500	400	1780	960	6300	4200	5700	10400	20	80	0
Chaetoceros teres	200	40	40	40	200	40	200	120	0	120	100	0	300	0	0	0	0
Corethron criophilum	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Coscinodiscus sp.	0	120	240	120	100	120	0	160	20	0	100	0	200	100	20	0	0
Coscinosira polychorda	200	280	160	40	200	400	200	40	40	80	0	100	300	100	20	0	0
Detonula cystifera	80	0	0	40	0	80	0	40	0	40	0	0	0	0	0	0	0
Ditylum brightwelli	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
Eucampia sp.	0	40	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Fragilaria sp.	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0
Leptocylindrus danicus	0	120	160	0	0	80	0	40	0	80	0	0	0	0	0	0	0
Leptocylindrus minimus	0	0	0	0	60	0	100	0	100	0	1300	1000	1400	1600	60	20	0
Lycmophora lyngbyei	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Melosira monoliformis	0	0	40	40	0	40	0	0	0	0	0	0	0	0	0	0	0
Navicula sp.	40	80	40	80	20	0	0	40	0	0	0	0	0	0	0	0	0
Nitzschia closterium	40	120	80	80	100	40	0	80	80	80	100	100	800	600	0	0	0
Nitzschia pseudodelicatissima	360	280	120	720	860	160	1000	1600	1340	160	10900	6800	11900	18000	120	0	0
Pleurosigma angulatum	0	0	0	40	20	0	0	40	20	40	100	100	0	0	20	0	0
Pleurosigma sp.	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Pleurosigma strigosum	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Porosira glacialis	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0
Rhizosolenia delicatula	0	0	0	0	0	0	100	0	100	0	800	500	1300	3800	0	40	0
Rhizosolenia fragillima	40	40	80	40	0	40	0	120	40	120	100	100	0	300	0	0	0
Rhizosolenia gracillima	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0
Rhizosolenia hebetata	0	0	0	80	0	0	0	80	0	0	0	0	0	0	0	0	0
Rhizosolenia setigera	0	40	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Rhizosolenia shrubsolei	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skeletonema costatum	160	80	80	120	80	160	0	200	200	360	200	700	200	500	40	0	0

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Thalassiosira condensata	0	0	0	0	20	80	0	0	0	0	0	0	0	0	0	0	0
Thalassiosira decipiens	1080	1040	920	1480	80	1120	0	840	20	1640	600	0	0	1100	0	0	0
Thalassiosira gravida	8440	9200	10400	8720	10240	10000	5700	11440	12560	10840	5600	6100	5100	7000	200	20	120
Thalassiosira nordenskioeldii	3200	2320	200	200	5300	960	700	240	440	40	4100	1600	1400	5600	240	100	80
Thalassiosira rotula	0	0	0	120	400	0	0	0	300	0	600	400	1900	500	380	180	240
Thalassiosira subtilis	0	0	0	0	0	0	0	40	0	0	0	0	0	0	320	60	20
Thalassiothrix nitzschiodes	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Acartia sp.	0	0	0	0	20	0	0	0	0	0	0	100	0	0	0	0	0
Brachionus sp.	0	40	0	0	20	80	0	0	20	120	0	200	0	100	0	20	0
Distephanus speculum	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0
Euglena sp.	160	0	0	280	160	0	0	0	60	0	200	300	200	100	0	0	0
Eutreptia sp.	0	0	0	0	0	0	0	0	0	200	0	0	0	0	0	0	0
Helicostomella sp.	0	0	40	0	60	0	0	0	80	40	0	100	0	0	20	0	0
Mesodinium rubrum	440	4240	1800	960	660	1160	700	560	180	1200	1100	2600	0	600	80	20	460
Parafavella sp.	0	0	0	0	20	0	0	40	0	0	0	0	0	0	0	0	0
Ptychocylis sp.	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0
Tintinnids	200	680	480	280	420	560	100	80	380	160	2600	5000	300	1600	0	0	20

DATE: 14- 06- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	180	0	160	0	120	20	0	160	0	0	0	0	60	100	20	120	20
Alexandrium (duplet)	0	0	40	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Alexandrium (triplet)	0	0	0	0	0	0	0	20	0	0	0	0	20	0	0	0	0
Dinophysis acuminata	0	0	20	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Dinophysis norvegica	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Gyrodinium sp.	20	0	0	60	0	0	0	0	0	0	0	0	20	0	60	0	0
Peridinium sp.	0	500	320	120	200	20	500	260	400	300	500	100	100	100	0	0	0
Peridinium triqueta	40	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Scrippsiella trochoidea	20	0	20	0	0	20	0	0	0	200	0	0	60	200	0	60	40
Biddulphia obtusa	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros constrictus	100	0	0	0	220	120	0	40	0	0	0	0	0	0	0	0	0
Chaetoceros debilis	4780	13500	5740	400	4460	5120	5400	4820	9100	6000	2800	1600	400	4400	80	60	100
Chaetoceros decipiens	40	500	180	0	160	80	300	180	200	100	100	0	20	100	0	0	0
Chaetoceros furcellatus	40	0	0	0	20	0	100	20	0	0	0	0	0	0	0	0	0
Chaetoceros laciniosus	140	500	160	0	260	240	800	260	600	100	300	300	20	500	0	0	80
Chaetoceros sp.	300	7100	2720	6800	260	120	4200	140	9200	5600	2800	2500	1400	5100	0	20	20
Chaetoceros teres	100	100	0	60	240	340	0	220	100	100	0	0	40	100	0	0	0
Corethron criophilum	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinodiscus sp.	0	0	0	0	20	0	0	0	0	0	0	600	0	0	0	0	0
Coscinosira polychorda	40	100	20	0	220	140	0	40	200	100	0	0	0	0	0	0	0

STATION NUMBERS ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Ditylum brightwelli	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Eucampia sp.	0	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0
Fragilaria sp.	0	0	0	0	20	0	0	0	0	0	0	0	20	100	0	0	0
Leptocylindrus danicus	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Leptocylindrus minimus	200	1600	380	60	100	140	1900	280	1400	1400	1100	700	140	1300	0	0	0
Lycmophora lyngbyei	0	0	20	20	0	0	0	20	0	0	0	0	20	0	0	0	0
Navicula sp.	0	0	0	20	20	0	0	0	0	0	0	0	60	200	0	0	0
Nitzschia closterium	100	1300	200	20	160	0	1300	40	1700	600	500	400	120	1100	0	0	0
Nitzschia pseudodelicatissima	200	23800	11940	900	140	60	12300	420	22900	21500	8000	5600	2660	12800	200	0	0
Pleurosigma angulatum	40	0	0	100	0	0	0	0	0	100	0	0	60	0	0	0	40
Rhizosolenia delicatula	60	800	180	300	0	20	2100	0	4300	400	900	200	880	2800	0	20	60
Rhizosolenia fragillima	100	0	20	40	20	0	500	40	100	400	0	0	0	100	0	0	0
Rhizosolenia hebetata	0	0	0	20	0	0	0	0	300	0	0	0	20	0	40	0	0
Rhizosolenia setigera	0	0	20	0	0	0	0	20	100	0	0	0	0	0	0	0	0
Skeletonema costatum	40	1700	120	180	120	100	100	60	700	500	100	200	60	400	0	0	0
Stephanopyxis turris	0	200	0	0	20	0	0	0	0	100	0	0	20	0	0	0	0
Thalassiosira decipiens	100	0	0	0	340	120	0	20	0	0	0	100	0	0	0	0	0
Thalassiosira gravida	20960	15200	13120	30680	11720	21300	10800	19920	33600	28500	10000	6800	9040	5800	0	29820	0
Thalassiosira nordenskioeldii	1820	8400	100	40	2120	1800	300	900	800	2300	1400	1600	0	700	0	80	20440
Thalassiosira rotula	320	2600	720	0	1080	760	1300	320	3000	3200	2000	400	140	2000	32380	300	0
Thalassiosira sp.	0	0	0	40	80	60	0	0	0	0	0	0	0	0	0	0	0
Thalassiothrix nitzschiodes	0	0	20	0	0	0	0	0	0	0	0	0	40	0	0	0	0
Acartia sp.	0	100	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Distephanus speculum	0	0	20	0	20	0	0	20	0	0	0	0	0	0	0	0	0
Euglena sp.	160	500	200	60	160	0	0	160	400	0	100	300	100	0	0	0	0
Favella sp.	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20	0
Helicostomella sp.	80	200	40	0	40	0	0	40	0	0	100	0	160	0	0	20	0
Mesodinium rubrum	1840	300	40	0	140	80	700	40	300	100	100	300	40	100	0	200	60
Notholca sp.	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Tintinnids	160	700	140	40	140	40	700	120	100	400	200	1200	40	300	0	0	0

DATE: 22- 06- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	180	340	320	200	20	160	80	80	320	0	80	20	240	560	40	120	140
Alexandrium (duplet)	0	0	0	20	0	0	0	0	0	0	0	0	20	80	0	0	0
Alexandrium (fusing)	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Ceratium longipes	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceratium minutum	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dinophysis acuminata	0	20	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0
Dinophysis norvegica	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Gyrodinium sp.	0	40	0	0	0	0	20	0	0	0	0	0	0	0	0	40	0
Peridinium conicum	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Peridinium ovatum	0	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peridinium sp.	60	240	40	60	20	200	20	180	220	80	0	0	140	160	0	0	0
Peridinium triqueta	0	40	0	0	0	20	0	0	140	0	0	0	0	0	0	0	0
Scrippsiella trochoidea	0	140	40	0	0	60	40	0	260	0	0	0	40	60	0	80	80
Cerataulina pelagica	0	0	20	0	0	0	0	0	0	0	40	0	0	0	0	0	0
Chaetoceros constrictus	0	20	40	40	20	40	40	140	180	120	20	0	140	40	0	0	0
Chaetoceros convolutus	20	0	0	0	0	0	0	0	20	0	20	0	0	0	0	20	0
Chaetoceros debilis	800	640	480	1480	660	640	980	1900	180	480	200	160	420	260	20	320	80
Chaetoceros decipiens	0	20	20	100	60	0	40	60	20	60	20	0	20	60	0	0	0
Chaetoceros laciniosus	60	120	60	160	120	140	220	140	120	180	160	60	120	40	60	140	20
Chaetoceros sp.	0	100	100	260	60	140	200	420	200	140	240	60	360	260	60	0	0
Chaetoceros teres	20	120	100	140	40	160	100	200	200	40	60	40	100	20	0	0	0
Chaetoceros willei	20	0	0	20	0	0	20	20	0	20	20	0	0	0	0	0	0
Coscinosira polychorda	20	20	0	60	0	0	0	80	0	0	20	60	0	20	0	0	0
Ditylum brightwelli	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	40	0
Eucampia sp.	0	0	0	0	0	0	20	20	0	0	40	0	0	0	0	0	0
Fragilaria sp.	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Leptocylindrus danicus	60	100	0	140	20	100	560	100	20	580	220	60	420	740	0	0	0
Leptocylindrus minimus	200	160	200	320	20	140	720	220	220	440	600	20	1080	1500	80	220	460
Navicula sp.	20	0	0	20	0	0	0	20	0	0	0	0	0	0	0	0	0
Nitzschia closterium	60	0	0	40	0	20	20	20	0	0	0	0	20	60	0	0	0
Nitzschia pseudodelicatissima	0	60	140	300	60	60	660	0	100	440	720	0	1320	100	240	800	120
Nitzschia pungens	0	0	20	40	0	40	0	0	20	0	0	0	0	0	20	100	140
Nitzschia seriata	0	0	0	20	0	0	0	0	0	0	40	0	0	0	0	0	140
Pleurosigma angulatum	0	0	0	0	0	20	40	40	0	0	0	0	0	0	0	0	0
Rhizosolenia delicatula	0	40	0	60	0	0	100	0	0	0	20	20	0	140	0	80	0
Rhizosolenia fragillima	0	20	0	20	20	20	140	0	20	20	0	0	20	0	0	0	0
Rhizosolenia hebetata	0	40	60	20	0	220	0	160	60	60	20	0	40	0	20	0	0
Rhizosolenia setigera	20	0	0	0	60	20	40	0	0	0	0	0	20	0	0	0	0
Skeletonema costatum	20	0	20	20	0	20	0	20	0	0	20	0	0	0	0	0	0
Thalassiosira condensata	0	20	2360	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thalassiosira decipiens	40	60	40	40	0	0	40	40	0	40	0	0	40	20	0	0	0
Thalassiosira gravida	3020	2160	0	6460	3820	5220	3300	9340	420	2040	3420	2100	3780	1760	200	1880	60

STATION NUMBERS / ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Thalassiosira nordenskioeldii	20	20	100	360	260	240	80	140	0	100	80	40	100	40	0	100	0
Thalassiosira rotula	80	40	120	280	80	180	180	480	220	160	240	20	400	200	0	0	0
Thalassiothrix nitzschiodes	0	0	0	20	0	40	0	20	0	0	0	0	0	0	0	0	0
Acartia sp.	0	0	0	40	0	0	0	20	0	0	0	20	0	0	40	0	0
Brachionus sp.	0	80	0	0	0	0	0	20	0	0	0	0	20	0	0	0	0
Distephanus speculum	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0
Euglena sp.	200	100	0	100	20	60	100	100	360	240	40	20	180	100	0	0	0
Eutreptia sp.	0	100	0	0	0	0	0	0	0	0	0	60	0	460	0	0	0
Helicostomella sp.	500	1040	120	180	80	200	0	140	80	0	20	0	240	80	0	100	140
Mesodinium rubrum	2260	2700	120	300	80	320	120	400	220	80	80	40	200	320	80	140	80
Notholca sp.	40	0	20	20	0	0	0	0	40	0	0	0	0	0	0	0	0
Ptychocylis sp.	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Tintinnids	380	1080	40	100	60	220	120	120	340	0	80	80	160	240	0	20	0

DATE: 28- 06- 88 DEPTH: SURFACE

STATION NUMBERS / ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Alexandrium fundyense	80	220	220	360	140	240	260	120	340	340	80	40	120	140	180	0	20
Alexandrium (duplet)	0	0	0	0	0	60	0	40	40	0	0	0	0	0	20	0	0
Dinophysis acuminata	0	0	0	40	0	0	0	0	20	0	0	0	0	0	60	0	20
Dinophysis sp.	0	0	0	0	20	0	0	0	0	0	0	0	20	20	0	0	0
Gonyaulax spinifera	0	0	0	40	0	0	0	0	0	20	0	0	0	0	0	0	0
Gyrodinium aureolum	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Gyrodinium sp.	0	0	20	0	0	0	0	0	40	0	0	0	0	40	0	0	0
Peridinium sp.	40	60	280	280	80	160	160	120	380	240	120	20	820	160	140	80	0
Peridinium triqueta	0	0	0	160	20	0	20	100	200	100	0	0	40	20	0	0	0
Scrippsiella trochoidea	20	20	40	180	100	160	0	60	100	80	80	0	120	120	80	0	0
Actinoptychus undulatus	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros constrictus	20	40	20	40	0	80	160	60	100	60	0	0	0	0	0	0	0
Chaetoceros convolutus	0	20	0	0	20	0	0	0	20	20	0	0	0	0	0	0	20
Chaetoceros debilis	240	240	220	320	360	620	680	840	1020	200	40	20	140	20	300	20	40
Chaetoceros decipiens	120	20	0	0	40	80	80	0	0	20	60	40	40	40	0	0	0
Chaetoceros furcellatus	0	0	0	0	0	20	0	20	0	0	0	0	0	0	0	0	0
Chaetoceros laciniosus	80	0	40	40	40	120	220	80	220	100	40	20	160	20	0	0	0
Chaetoceros lorenzianus	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros sp.	160	40	20	80	80	300	640	460	500	180	160	0	60	100	820	380	320
Chaetoceros teres	40	20	20	40	0	80	20	120	20	20	0	0	20	40	0	0	0
Chaetoceros willei	0	0	0	20	0	0	0	80	0	0	0	20	0	40	0	0	0

STATION NUMBERS																	
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Corethron criophilum	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinodiscus sp.	0	0	0	0	0	0	0	20	0	20	0	0	0	0	0	0	0
Coscinosira polychorda	0	0	60	0	0	40	20	20	0	40	0	0	0	0	0	0	0
Ditylum brightwelli	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eucampia sp.	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0
Fragilaria sp.	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0
Gyrosigma tennuissimum	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptocylindrus danicus	60	0	0	60	0	40	400	200	260	100	140	0	60	60	260	900	660
Leptocylindrus minimus	140	260	200	920	160	300	6100	700	1180	160	1900	1020	6440	27260	480	5380	11700
Lycmophora lyngbyei	0	0	20	0	0	0	0	20	0	0	0	0	0	0	0	20	0
Navicula sp.	40	0	20	0	60	20	20	20	80	20	0	0	0	20	0	0	20
Nitzschia closterium	20	20	20	80	100	140	100	180	160	80	40	40	0	40	20	80	0
Nitzschia pseudodelicatissima	160	40	20	60	0	220	140	640	360	20	20	0	0	0	500	100	620
Nitzschia pungens	0	40	20	0	60	40	280	120	40	40	80	0	20	0	100	0	0
Nitzschia seriata	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleurosigma angulatum	0	0	0	0	40	20	80	80	20	0	0	0	0	0	0	0	0
Pleurosigma strigosum	0	20	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0
Rhizosolenia alata	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhizosolenia delicatula	20	0	20	0	0	60	160	100	0	0	100	20	140	640	160	40	0
Rhizosolenia fragillima	0	0	0	0	0	0	20	80	0	0	40	0	20	20	0	0	0
Rhizosolenia hebetata	160	100	140	40	160	80	320	320	140	120	0	80	0	0	220	0	20
Rhizosolenia setigera	20	0	20	60	0	0	20	20	40	20	0	0	40	0	0	0	0
Skeletonema costatum	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	20	0
Stephanopyxis turris	0	0	0	0	0	0	0	20	20	0	0	0	0	0	0	0	0
Thalassiosira baltica	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thalassiosira decipiens	20	20	20	20	20	20	60	20	0	0	20	20	60	40	0	0	0
Thalassiosira gravida	2620	1060	4000	3160	2800	5520	6460	7560	5040	12000	1920	820	3080	1660	2840	2320	1260
Thalassiosira nordenskioeldii	0	60	0	0	0	100	0	40	0	40	0	20	40	0	0	0	20
Thalassiosira rotula	60	0	40	80	60	180	200	80	100	180	40	0	40	60	0	0	0
Thalassiothrix nitzschiodes	0	0	0	0	0	0	0	20	0	0	0	0	0	20	0	0	0
Acartia sp.	100	0	0	0	20	20	0	0	80	20	0	60	0	20	60	0	40
Brachionus sp.	0	0	20	20	0	60	40	80	40	80	0	20	0	0	20	20	60
Euglena sp.	120	120	140	140	100	80	160	160	220	100	80	60	80	140	100	100	80
Eutintinnus sp.	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Eutreptia sp.	20	60	0	40	40	0	120	0	0	0	60	700	40	240	0	0	0
Favella sp.	0	0	0	0	0	0	20	20	0	0	0	40	0	40	0	20	0
Helicostomella sp.	600	380	420	920	300	300	240	520	1040	860	60	0	100	340	20	100	280
Mesodinium rubrum	1040	760	2220	5640	420	580	1140	880	600	680	400	6360	40	1020	0	200	280
Parafavella sp.	20	20	0	20	0	0	0	20	0	0	0	0	0	20	0	0	80
Ptychocylis sp.	0	0	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Tintinnids	480	180	260	520	280	120	20	140	480	100	60	1920	40	520	120	0	20

DATE: 05- 07- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	1860	660	880		1200	2960	80	1400	760	1240	200	280	420	220	1880	1620	100
Alexandrium (duplet)	200	20	100		100	380	0	0	20	140	0	20	20	20	100	100	0
Ceratium longipes	0	0	0		0	0	0	20	0	0	0	0	0	0	0	0	0
Dinophysis acuminata	40	0	20		0	0	40	60	20	0	40	0	0	40	40	0	0
Dinophysis norvegica	40	0	20		0	0	0	0	20	20	0	0	0	40	20	20	0
Dinophysis sp.	0	0	40		0	20	0	20	40	0	0	0	0	0	0	0	0
Gonyaulax triacantha	20	20	0		0	0	0	20	0	0	0	0	20	20	0	0	0
Gyrodinium sp.	0	0	0		20	0	0	0	0	60	0	0	0	0	0	0	0
Peridinium conicum	0	0	0		0	0	0	0	0	20	0	0	0	0	40	20	0
Peridinium depressum	0	0	0		0	0	0	0	0	20	0	0	0	0	0	40	0
Peridinium ovatum	40	0	20		20	0	0	0	0	20	40	0	0	0	0	0	0
Peridinium sp.	1100	460	380		320	1400	160	520	500	440	120	180	100	240	520	100	200
Peridinium triqueta	100	180	40		80	280	0	220	360	260	0	0	0	20	0	0	0
Scrippsiella trochoidea	160	200	80		120	260	0	220	300	360	0	60	60	20	260	40	0
Chaetoceros affinis	60	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros constrictus	0	40	40		20	20	0	20	220	160	0	0	0	0	0	0	0
Chaetoceros convolutus	0	0	0		20	20	20	40	40	0	0	0	0	20	100	20	60
Chaetoceros debilis	120	180	140		180	120	60	360	220	380	20	60	60	0	260	60	40
Chaetoceros decipiens	20	0	0		20	80	80	0	0	0	60	0	0	20	0	60	0
Chaetoceros laciniosus	40	20	40		60	40	20	80	60	0	0	60	40	0	40	20	20
Chaetoceros socialis	0	0	0		0	0	40	0	0	0	0	0	0	0	0	0	0
Chaetoceros sp.	240	60	100		180	320	40	400	980	460	0	60	40	60	380	300	100
Chaetoceros teres	20	0	0		0	40	0	20	0	0	0	20	0	0	0	0	0
Coscinodiscus sp.	40	0	0		40	60	0	20	0	0	20	0	0	0	0	0	0
Coscinosira polychorda	0	0	80		0	20	80	80	20	0	0	40	0	0	20	40	0
Fragilaria sp.	0	0	0		0	0	20	0	0	0	0	0	20	0	0	0	0
Gyrosigma fasciola	0	0	20		0	0	40	0	0	0	0	0	20	20	0	0	0
Gyrosigma prolongatum	0	0	0		20	0	0	0	0	0	0	0	0	0	0	0	40
Leptocylindrus danicus	0	20	0		20	240	0	160	20	60	0	40	100	20	120	240	420
Leptocylindrus minimus	840	400	1040		920	1240	9280	840	740	800	300	1580	740	2040	180	1500	3300
Melosira monaliformis	0	0	0		0	0	0	20	0	0	0	20	0	0	0	0	0
Navicula sp.	0	0	0		0	0	20	0	40	20	0	0	0	20	0	20	40
Nitzschia closterium	120	40	100		100	40	80	160	40	80	40	40	0	480	0	20	200
Nitzschia pseudodelicatissima	20	0	40		20	60	220	60	0	140	40	0	20	120	0	100	0
Nitzschia pungens	80	120	140		140	160	100	100	420	40	80	0	120	40	140	140	1240
Nitzschia seriata	0	0	0		40	0	0	280	0	240	40	0	0	0	0	0	0
Pleurosigma angulatum	40	0	40		20	20	100	20	0	0	40	20	120	60	0	0	160
Rhizosolenia alata	0	0	0		0	60	0	20	0	60	0	0	0	0	0	0	0
Rhizosolenia delicatula	260	20	280		80	140	700	600	400	320	160	280	280	180	260	1820	1880
Rhizosolenia hebetata	140	220	300		260	180	180	220	140	140	140	260	280	140	200	240	160
Rhizosolenia setigera	0	0	40		20	0	20	0	0	0	0	20	0	0	0	0	0
Rhizosolenia sp.	40	20	0		0	0	0	0	0	0	0	0	0	20	0	0	0

STATION NUMBERS																	
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Skeletonema costatum	20	0	0		0	0	0	20	80	100	40	0	20	0	0	100	0
Thalassiosira baltica	20	0	0		0	20	0	0	0	0	0	0	0	0	0	0	0
Thalassiosira condensata	20	0	80		40	120	40	80	200	60	160	60	20	20	0	120	0
Thalassiosira gravida	780	1000	560		620	1600	440	2740	2160	1880	900	620	760	300	480	940	140
Thalassiosira nordenskioeldii	0	0	20		0	80	0	0	200	20	0	0	0	0	0	0	0
Thalassiosira rotula	0	0	20		20	0	60	100	180	180	40	240	80	40	140	540	0
Thalassiothrix nitzschiodes	0	0	0		0	0	0	0	0	20	0	40	0	0	0	0	0
Acartia sp.	20	0	20		40	20	60	0	0	0	60	0	0	0	440	0	0
Brachionus sp.	20	0	40		0	60	0	100	0	0	0	20	0	40	0	0	0
Distephanus speculum	0	0	0		0	0	0	20	0	0	0	0	20	40	60	40	0
Euglena sp.	100	120	160		120	200	60	120	120	20	20	160	60	80	140	100	80
Eutreptia sp.	40	0	100		80	200	0	40	340	40	0	20	0	40	0	0	0
Helicostomella sp.	540	200	620		640	400	80	640	40	20	20	120	80	140	1160	120	100
Mesodinium rubrum	1900	480	1600		1700	3140	280	400	160	180	140	1360	100	480	840	840	1760
Parafavella sp.	0	0	0		0	40	0	0	0	0	0	0	0	0	0	0	0
Ptychocylis sp.	0	0	0		0	0	0	0	20	20	40	0	0	0	0	0	0
Tintinnids	520	80	540		100	260	80	100	20	20	20	280	0	200	20	0	0
Tintinnopsis sp.	0	0	0		40	0	0	0	0	0	0	0	0	0	0	0	480

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STATION NUMBERS																	
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Alexandrium fundyense	2380	1340	2080	2180	3200	1000	1380	7020	8000	6980	320	160		520	1860	7460	100
Alexandrium (cyst)	0	0	0	0	20	0	0	0	0	0	0	0		0	0	0	0
Alexandrium (duplet)	0	0	40	0	0	0	0	60	40	40	20	0		20	0	0	0
Alexandrium (fusing)	0	0	20	20	0	0	20	20	0	0	0	0		0	0	0	0
Alexandrium (planozygote)	60	40	120	60	220	60	0	220	240	360	0	0		0	0	0	0
Ceratium longipes	20	40	20	0	0	40	40	60	140	20	0	0		20	0	0	0
Dinophysis acuminata	140	140	80	60	220	40	80	240	260	320	40	0		140	140	220	0
Dinophysis norvegica	80	20	20	0	80	20	60	60	180	160	20	0		40	120	120	0
Dinophysis sp.	20	0	20	60	0	0	0	140	0	100	0	0		40	0	0	0
Gonyaulax spinifera	40	20	20	0	0	0	0	40	0	40	0	0		0	0	0	0
Gonyaulax triacantha	0	0	0	0	0	0	40	20	20	20	0	0		0	20	0	20
Gyrodinium aureolum	0	0	0	0	0	0	0	0	180	0	0	0		0	0	0	0
Peridinium conicum	60	0	40	80	20	0	20	80	140	80	0	0		40	40	100	0
Peridinium depressum	0	0	0	20	0	0	0	0	20	60	0	0		0	0	20	0
Peridinium ovatum	20	0	0	20	0	0	0	20	60	40	0	0		0	0	0	0
Peridinium sp.	1680	740	680	1340	640	560	520	2520	2500	3100	140	60		320	640	1620	100
Peridinium triqueta	260	40	100	180	160	40	160	740	900	940	20	60		20	0	0	0
Prorocentrum micans	0	20	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Scrippsiella trochoidea	360	300	60	160	220	60	100	440	440	580	40	0		0	180	160	60
Chaetoceros constrictus	0	0	20	40	20	0	20	120	20	40	0	0		20	0	0	0

STATION NUMBERS																	
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Chaetoceros convolutus	0	20	0	20	0	0	0	0	0	0	0	0		0	20	20	0
Chaetoceros debilis	60	240	60	280	180	100	0	320	280	100	20	0		0	40	160	0
Chaetoceros decipiens	0	0	20	40	0	0	20	40	0	0	0	0		0	20	120	0
Chaetoceros laciniosus	20	0	20	20	120	20	20	80	40	60	0	0		0	0	40	20
Chaetoceros sp.	0	60	20	80	80	20	0	120	20	60	0	0		0	500	540	20
Chaetoceros teres	0	0	40	0	40	0	0	20	0	20	0	0		0	0	0	0
Corethron criophilum	0	0	0	0	20	0	0	0	0	0	0	0		0	0	0	0
Coscinodiscus sp.	20	0	0	20	20	0	20	0	20	40	0	0		0	0	0	0
Coscinosira polychorda	0	20	0	0	20	0	0	40	0	80	20	0		0	0	20	0
Ditylum brightwelli	20	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Fragilaria sp.	0	0	0	0	0	20	0	20	0	0	0	0		20	0	0	0
Grammatophora marina	0	0	0	0	0	0	0	20	0	0	0	0		0	0	0	0
Gyrosigma fasciola	0	0	0	0	0	0	0	0	0	20	0	0		0	0	0	0
Leptocylindrus danicus	0	0	0	0	0	0	0	60	0	0	0	0		0	320	260	0
Leptocylindrus minimus	20	60	20	0	40	20	0	20	0	40	0	0		0	20	60	0
Lycmophora lyngbyei	0	0	0	0	0	20	20	0	0	0	0	0		0	0	0	0
Navicula sp.	0	20	0	0	0	40	40	0	0	0	0	0		0	0	0	0
Nitzschia closterium	40	80	60	80	20	40	0	140	120	180	120	20		40	40	0	80
Nitzschia pseudodelicatissima	20	0	0	60	0	0	0	80	0	40	0	60		0	0	40	60
Nitzschia pungens	40	160	200	180	380	100	0	200	200	80	20	20		0	20	220	40
Pleurosigma angulatum	0	20	60	20	20	0	20	0	40	60	60	0		0	0	0	0
Rhabdonema adriaticum	0	0	0	0	0	0	0	20	0	0	0	0		0	0	0	0
Rhizosolenia alata	0	20	0	0	40	0	0	20	0	0	0	0		0	0	0	0
Rhizosolenia delicatula	160	700	740	180	980	620	20	1300	680	2180	60	20		60	920	580	160
Rhizosolenia fragillima	0	20	20	20	0	0	0	40	0	0	0	0		0	0	0	20
Rhizosolenia hebetata	40	40	40	40	40	60	40	0	120	140	20	60		40	0	160	0
Rhizosolenia setigera	0	20	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Rhizosolenia sp.	0	0	0	0	0	0	0	40	0	0	0	20		0	0	0	0
Skeletonema costatum	0	20	20	20	20	0	0	20	0	20	0	0		0	0	20	0
Stephanopyxis turris	0	0	0	0	40	0	0	0	40	0	0	0		0	0	0	0
Striatella sp.	0	0	0	0	0	0	0	0	160	0	0	0		0	0	0	0
Thalassiosira baltica	0	0	0	0	0	0	0	0	0	40	0	0		0	0	0	0
Thalassiosira condensata	0	0	60	0	100	0	0	100	120	20	0	20		0	0	0	0
Thalassiosira gravida	0	40	40	80	200	20	20	80	100	60	20	0		0	0	120	0
Thalassiosira rotula	0	0	40	0	20	0	0	20	0	60	0	0		0	0	160	20
Thalassiothrix nitzschiodes	0	20	0	0	40	0	0	0	20	0	0	0		0	0	0	0
Acartia sp.	20	40	20	80	0	0	0	20	20	0	0	0		0	200	0	0
Brachionus sp.	0	20	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Distephanus speculum	0	20	20	20	0	20	40	80	20	0	40	0		40	40	40	20
Euglena sp.	80	120	80	100	0	40	0	60	0	20	80	60		100	100	20	0
Eutreptia sp.	520	120	80	60	0	20	20	80	0	40	80	80		0	0	0	0
Favella sp.	20	0	0	0	20	0	0	0	40	40	0	0		0	60	0	0
Helicostomella sp.	1720	880	500	1180	860	580	460	1740	1620	1420	20	0		260	1420	880	160
Mesodinium rubrum	24100	3680	1880	3320	2360	600	1320	2960	6500	3060	380	980		380	4920	5040	1000
Parafavella sp.	20	0	0	0	0	0	0	0	20	0	0	0		20	0	0	0
Ptychocylis sp.	20	0	0	0	0	0	0	0	20	20	0	0		0	0	20	0
Tintinnids	340	460	260	580	300	220	140	420	340	160	40	100		400	380	400	640

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STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	320	1840	2580	760	240	1800	100	5120	1660	4760	420	380	1420	1100	720	3320	40
Alexandrium (cyst)	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Alexandrium (duplet)	0	0	0	0	0	0	0	60	0	60	0	0	0	40	0	0	0
Alexandrium (fusing)	0	0	40	0	0	0	0	20	0	0	0	0	20	0	0	0	0
Alexandrium (planozygote)	0	60	140	0	0	20	0	0	20	80	60	20	40	0	0	0	0
Alexandrium (triplet)	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceratium longipes	0	20	0	20	0	0	0	440	120	20	20	0	20	20	0	20	0
Ceratium minutum	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0
Dinophysis acuminata	200	60	220	80	40	160	160	300	820	440	160	40	80	280	180	320	120
Dinophysis norvegica	20	0	60	40	0	80	140	200	60	60	20	20	100	40	0	100	0
Dinophysis rotundata	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dinophysis sp.	0	0	0	40	100	20	80	80	140	40	20	20	0	80	0	0	0
Gonyaulax spinifera	0	0	0	0	0	0	0	40	40	60	0	0	40	0	0	0	0
Gonyaulax triacantha	0	0	0	0	0	0	0	0	0	20	0	0	20	0	0	20	0
Gyrodinium sp.	20	0	20	0	0	0	0	0	40	20	40	0	0	0	0	160	0
Peridinium conicum	20	0	80	20	40	40	20	60	140	60	0	0	0	60	40	120	0
Peridinium denticulatum	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Peridinium depressum	0	0	0	0	0	20	0	0	40	20	0	0	0	0	20	0	0
Peridinium ovatum	0	0	20	0	0	20	0	320	120	40	0	20	0	20	0	0	0
Peridinium sp.	180	540	2180	700	260	1120	160	3840	1880	1700	220	400	820	1220	140	1600	560
Peridinium triqueta	40	140	900	160	20	220	20	1500	240	480	60	60	360	320	0	700	0
Prorocentrum micans	0	0	0	0	0	0	20	20	0	0	0	0	0	0	0	0	0
Scrippsiella trochoidea	0	40	400	60	0	100	0	260	200	240	20	60	200	260	0	20	40
Chaetoceros constrictus	0	0	0	0	0	0	0	0	20	40	0	0	0	0	0	0	0
Chaetoceros convolutus	0	0	0	0	0	0	20	0	20	60	0	0	0	0	0	0	0
Chaetoceros debilis	20	0	0	20	0	20	20	40	200	260	0	0	20	0	80	140	0
Chaetoceros decipiens	0	0	0	0	0	20	0	0	40	160	0	0	20	0	0	0	0
Chaetoceros laciniosus	0	0	0	0	0	40	20	20	0	0	0	0	0	0	0	0	60
Chaetoceros socialis	0	0	0	0	0	0	0	0	20	0	0	0	20	0	0	40	0
Chaetoceros sp.	0	0	0	40	0	20	20	0	220	100	0	0	60	20	200	40	40
Chaetoceros teres	20	20	20	0	0	0	20	0	200	180	20	0	40	0	0	0	0
Coscinosira polychorda	0	0	0	0	0	0	0	0	20	40	0	0	0	0	0	0	0
Fragilaria sp.	0	0	0	0	0	0	0	0	20	0	0	0	20	0	0	0	0
Gyrosigma prolongatum	0	40	0	0	0	0	0	0	0	0	0	0	0	20	0	0	120
Leptocylindrus danicus	0	20	0	0	0	0	0	0	560	0	0	140	0	0	0	0	0
Leptocylindrus minimus	20	20	40	20	20	20	20	100	200	280	20	0	40	20	60	0	20
Lycmophora lyngbyei	0	0	0	0	0	0	0	0	0	20	60	20	0	40	0	0	0
Melosira sp.	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Navicula sp.	0	0	20	0	0	60	0	0	0	0	0	0	20	20	0	20	0
Nitzschia closterium	20	20	40	40	20	0	40	60	80	100	100	0	60	140	20	0	0
Nitzschia pseudodelicatissima	20	0	20	20	0	20	80	240	140	60	11940	1900	9780	32240	80	6160	45700
Nitzschia pungens	0	20	0	0	0	0	0	0	20	60	20	0	0	40	40	100	20

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Paralia sulcata	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Pleurosigma angulatum	0	0	0	20	20	20	100	0	20	0	0	0	40	80	0	0	0
Pleurosigma strigosum	20	0	0	0	0	0	0	0	20	60	20	0	0	0	0	0	0
Rhizosolenia alata	0	0	0	0	20	0	20	0	20	40	0	0	0	0	0	0	0
Rhizosolenia delicatula	0	40	20	240	40	60	160	320	420	400	180	220	220	380	260	0	300
Rhizosolenia hebetata	0	0	0	0	0	0	0	0	200	0	80	20	0	20	40	40	100
Rhizosolenia sp.	0	0	0	0	40	0	0	0	0	0	40	0	0	0	0	0	0
Skeletonema costatum	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0
Thalassiosira gravida	0	0	0	0	0	0	0	0	20	60	20	0	0	0	0	40	0
Acartia sp.	0	20	60	40	40	40	0	20	160	20	0	20	20	0	180	60	60
Brachionus sp.	0	0	0	0	0	20	0	0	0	20	0	0	40	0	0	20	40
Distephanus speculum	20	20	100	0	0	0	80	580	120	100	80	20	160	680	20	340	200
Euglena sp.	20	20	80	100	80	40	40	80	120	140	20	40	100	160	60	20	240
Eutreptia sp.	100	120	260	40	80	40	20	120	360	180	460	1000	100	1460	0	0	0
Favella sp.	0	0	20	0	0	0	0	0	60	40	0	20	0	20	20	60	60
Helicostomella sp.	220	420	600	180	200	260	80	280	760	560	20	100	340	540	80	240	100
Mesodinium rubrum	2180	3260	5100	580	1160	2240	220	400	9840	5300	3440	3640	1780	12960	400	21740	13300
Parafavella sp.	0	0	20	20	0	0	0	20	20	60	0	0	0	0	0	0	0
Ptychocylis sp.	0	0	0	20	0	0	0	0	0	20	0	0	0	0	0	0	0
Tintinnids	480	340	560	440	220	240	340	400	480	880	300	400	380	660	220	520	2820

DATE: 28- 07- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	40	60	20	220	80	120	40	160	80	60	40		80	140	820	140	80
Alexandrium (cyst)	0	0	0	0	0	0	0	20	0	0	0		0	0	0	0	0
Ceratium longipes	20	140	200	100	60	60	100	400	160	260	20		40	180	200	20	0
Ceratium minutum	0	20	0	0	20	20	20	60	20	20	0		0	0	40	20	0
Dinophysis acuminata	100	420	540	860	600	660	640	1200	840	1600	140		440	980	360	480	20
Dinophysis acuta	0	0	40	40	0	40	0	0	0	0	0		0	0	0	0	0
Dinophysis norvegica	40	180	120	140	180	140	80	280	140	360	40		80	80	180	140	20
Dinophysis rotundata	20	0	0	0	20	0	20	40	20	40	0		0	0	0	0	0
Dinophysis sp.	20	180	120	0	40	260	0	260	100	100	60		160	120	0	0	0
Gonyaulax spinifera	60	20	80	60	0	40	40	140	20	60	40		80	80	0	0	0
Gonyaulax triacantha	0	20	20	0	0	0	0	20	0	20	20		0	0	80	40	20
Gyrodinium sp.	0	20	0	40	0	20	20	0	0	60	0		0	120	120	40	260
Peridinium conicum	0	40	80	80	0	20	0	0	20	0	20		0	20	0	80	0
Peridinium depressum	0	0	20	0	0	0	0	0	0	0	0		0	0	0	0	0
Peridinium ovatum	0	60	20	20	40	20	20	60	0	40	0		40	80	0	0	0
Peridinium sp.	360	520	680	1200	600	580	760	1060	560	840	300		340	780	1480	240	240
Peridinium triqueta	60	60	40	160	80	240	80	120	160	140	120		80	420	1680	180	120
Prorocentrum micans	0	0	0	0	0	0	0	20	0	0	0		0	0	0	0	0
Scrippsiella trochoidea	40	20	100	100	40	60	40	120	140	120	60		100	80	200	60	60
Coscinodiscus sp.	0	0	0	0	0	0	20	0	0	0	0		0	0	0	0	0
Fragilaria sp.	0	0	0	0	20	0	0	0	40	0	0		0	0	0	0	0
Gyrosigma fasciola	0	0	0	0	0	20	0	0	0	0	0		20	0	0	0	0
Gyrosigma littorale	0	0	0	0	0	0	20	0	0	0	0		0	0	0	0	0
Gyrosigma prolongatum	0	0	0	0	0	20	0	0	0	0	20		20	40	0	60	160
Leptocylindrus minimus	0	0	0	0	20	0	0	20	20	40	0		60	20	0	0	200
Lycmophora lyngbyei	0	0	0	20	0	0	0	0	0	0	0		0	0	0	0	0
Navicula sp.	20	20	20	40	40	20	20	40	80	20	20		80	0	0	60	0
Nitzschia closterium	20	80	0	20	40	20	20	0	0	160	40		40	40	0	60	0
Nitzschia pseudodelicatissima	20	100	40	40	300	60	2020	40	360	160	6400		13700	81800	0	5080	91400
Pleurosigma angulatum	20	0	80	60	40	0	140	40	40	0	40		80	0	0	0	0
Pleurosigma strigosum	0	20	0	0	0	0	0	0	0	0	0		60	20	0	0	0
Rhizosolenia delicatula	0	0	0	0	0	0	20	0	0	0	0		40	60	0	0	840
Acartia sp.	20	160	100	120	60	140	60	60	20	160	60		520	60	320	40	100
Distephanus speculum	20	40	20	0	40	40	60	40	40	20	0		220	900	140	80	120
Euglena sp.	0	0	80	0	60	60	0	0	0	0	0		20	40	0	0	100
Eutreptia sp.	20	60	0	0	0	0	20	60	0	40	40		80	120	0	0	0
Favella sp.	20	20	20	200	20	60	0	60	20	60	20		0	60	60	0	20
Helicostomella sp.	20	40	20	120	40	120	0	320	0	60	80		120	60	20	60	140
Mesodinium rubrum	140	840	800	2120	1620	940	2020	1680	880	6080	420		280	760	600	1000	4780
Notholca sp.	0	0	0	20	0	0	0	0	0	20	0		0	0	0	0	0
Tintinnids	120	680	700	380	480	240	480	120	580	180	200		60	1060	1620	200	3020

DATE: 02- 08- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	0		0		0	0	0	20	0	0				60	40	20	40
Ceratium longipes	0		20		20	40	40	40	80	140				60	320	120	40
Ceratium minutum	0		0		0	0	0	0	0	20				0	60	0	0
Dinophysis acuminata	100		140		120	120	180	140	40	180				280	280	360	120
Dinophysis norvegica	0		60		0	60	120	80	0	40				40	420	160	40
Dinophysis rotundata	0		0		0	0	0	20	0	0				0	40	20	0
Dinophysis sp.	20		20		0	0	40	60	0	0				0	0	0	0
Gonyaulax spinifera	20		0		0	0	20	20	0	0				20	0	0	0
Gyrodinium sp.	0		20		100	0	0	80	0	20				0	0	0	20
Peridinium conicum	0		0		0	0	0	20	0	0				20	40	40	0
Peridinium ovatum	20		20		20	0	0	40	0	0				20	0	0	0
Peridinium sp.	180		80		80	200	200	240	720	280				120	480	200	160
Peridinium triqueta	0		0		20	0	40	0	100	0				20	60	0	0
Scrippsiella trochoidea	0		0		0	0	0	20	40	20				20	60	0	0
Chaetoceros sp.	0		0		0	0	0	0	0	20				0	0	0	80
Coscinodiscus sp.	0		0		20	0	0	0	0	0				0	0	0	0
Fragilaria sp.	0		0		0	0	20	20	0	0				0	0	0	0
Guinardia flaccida	0		0		100	0	0	0	0	0				0	0	0	0
Gyrosigma fasciola	0		0		20	0	0	0	0	0				0	0	0	0
Leptocylindrus minimus	0		0		0	0	0	20	20	0				40	0	0	120
Navicula sp.	20		40		0	0	0	40	20	60				20	0	20	0
Nitzschia closterium	40		40		80	0	0	60	120	0				40	0	0	0
Nitzschia pseudodelicatissima	1260		6840		4540	2680	18200	23760	16060	620160				29540	0	1060	57120
Paralia sulcata	0		20		0	0	0	20	0	0				0	0	0	0
Pleurosigma angulatum	0		40		80	40	120	40	0	120				40	0	0	0
Pleurosigma strigosum	0		20		0	0	0	0	0	0				0	0	0	0
Rhizosolenia delicatula	0		40		0	0	20	60	20	20				120	0	0	1220
Rhizosolenia gracillima	0		0		0	0	20	20	0	0				0	0	0	0
Rhizosolenia shrubsolei	0		0		0	0	0	20	0	0				0	0	0	0
Thalassiosira gravida	0		0		0	0	20	0	0	0				0	0	0	0
Acartia sp.	0		60		60	0	20	60	0	0				0	0	100	60
Distephanus speculum	60		40		20	20	120	100	1200	280				420	360	20	300
Euglena sp.	40		20		0	0	0	0	0	0				40	0	0	40
Eutreptia sp.	0		0		20	0	40	40	0	0				80	0	0	0
Favella sp.	0		0		0	0	0	0	0	20				0	0	20	0
Helicostomella sp.	20		0		0	0	0	60	0	0				60	40	40	40
Mesodinium rubrum	140		120		280	80	360	340	60	600				620	1700	740	1680
Notholca sp.	40		0		20	0	40	20	0	0				0	0	0	0
Tintinnids	40		320		340	160	220	360	40	200				400	340	40	340

DATE: 09- 08- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	20	0	0	80	0	0	20	0	0	0	0	0	0	0	300	0	20
Ceratium fusus	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Ceratium longipes	0	60	120	40	80	40	140	80	40	120	20	0	40	40	60	140	40
Ceratium minutum	0	0	20	0	0	0	0	0	0	20	0	0	0	20	0	20	0
Dinophysis acuminata	20	0	260	160	120	40	40	160	160	340	160	100	660	440	120	200	160
Dinophysis acuta	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Dinophysis norvegica	0	40	220	280	140	0	140	40	20	60	0	20	200	100	0	60	20
Dinophysis sp.	0	0	0	0	0	0	80	0	0	60	0	0	20	0	40	120	60
Gonyaulax spinifera	0	20	0	140	40	0	40	0	0	20	0	20	60	160	820	0	40
Gonyaulax triacantha	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	40
Gyrodinium sp.	20	0	320	200	0	180	40	140	20	120	0	0	20	20	60	0	220
Peridinium conicum	0	0	0	0	0	0	20	0	0	0	20	0	20	20	0	80	40
Peridinium ovatum	0	0	0	80	0	0	20	0	0	40	0	0	0	0	0	0	0
Peridinium sp.	200	260	1600	1840	400	240	20	680	120	540	140	0	660	400	4640	100	440
Peridinium triqueta	220	140	460	180	100	160	80	840	0	240	60	0	280	100	14420	60	40
Scrippsiella trochoidea	0	80	140	620	40	80	0	80	40	60	0	0	20	0	1940	0	0
Chaetoceros simplex	0	0	0	0	0	0	0	0	20	0	0	0	0	40	0	0	0
Chaetoceros socialis	0	0	0	0	0	0	0	0	40	0	0	0	140	20	0	0	0
Ditylum brightwelli	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fragilaria sp.	0	0	20	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Gyrosigma fasciola	0	0	0	0	0	0	0	0	0	20	20	0	20	0	0	0	0
Gyrosigma prolongatum	0	0	0	0	0	20	0	0	0	0	0	0	20	0	0	0	0
Leptocylindrus minimus	0	0	60	40	0	0	20	0	0	0	20	20	160	320	0	60	1040
Lycmophora lyngbyei	0	0	20	120	0	0	20	0	20	0	0	0	20	0	0	0	0
Nitzschia closterium	100	140	1200	400	120	480	100	340	1560	340	20	40	20	60	80	60	0
Nitzschia pseudodelicatissima	1000	860	1060	2340	1080	2960	6620	0	8960	2480	2140	720	12340	11720	1020	14180	31000
Nitzschia seriata	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Pleurosigma angulatum	0	0	0	0	20	0	0	20	0	0	20	0	0	0	0	0	0
Rhizosolenia delicatula	0	0	0	0	0	0	120	0	0	0	480	480	560	12760	0	180	20300
Rhizosolenia shrubsolei	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0
Skeletonema costatum	0	0	0	0	0	0	0	0	0	60	0	0	20	0	0	0	0
Thalassiothrix nitzschiodes	0	0	0	0	0	20	40	0	40	20	0	0	0	0	0	0	0
Acartia sp.	40	0	20	40	20	20	20	0	0	20	0	0	20	0	80	40	0
Distephanus speculum	100	180	860	840	180	660	260	780	1400	680	400	160	1540	2780	8280	1040	960
Euglena sp.	0	60	0	0	40	0	0	0	0	0	0	0	40	0	40	0	20
Eutreptia sp.	0	80	0	60	40	0	60	0	0	20	80	0	20	620	0	0	0
Favella sp.	0	0	20	0	0	20	0	0	0	0	0	0	0	20	0	0	0
Helicostomella sp.	20	20	60	0	20	0	40	0	0	0	20	0	140	0	0	0	200
Mesodinium rubrum	760	540	640	140	460	20	320	600	0	1380	700	20	3900	1860	260	1440	7180
Notholca sp.	0	0	0	20	0	0	60	0	0	0	0	0	0	0	0	0	0
Parafavella sp.	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	0	0
Tintinnids	360	300	800	180	200	240	160	640	0	320	220	60	280	220	460	340	860

DATE: 16- 08- 88 DEPTH: SURFACE

STATION NUMBERS / ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Alexandrium fundyense	20	20	0	20	0	0	0	180	60	160	0	0	20	0	0	20	20
Ceratium longipes	120	20	40	120	60	60	140	160	180	320	40	0	140	100	480	360	40
Ceratium minutum	100	20	0	20	40	40	100	60	80	200	0	0	40	0	800	280	20
Dinophysis acuminata	260	0	240	80	300	200	220	160	220	340	100	200	20	20	340	280	0
Dinophysis norvegica	100	40	100	100	20	160	140	240	320	160	0	20	0	60	440	200	20
Dinophysis rotundata	0	0	0	20	0	0	0	20	20	40	0	20	20	20	40	20	0
Dinophysis sp.	20	0	0	0	0	0	20	0	40	100	0	0	0	20	120	140	0
Gonyaulax spinifera	200	120	1620	1720	280	820	200	4360	2140	1680	40	100	60	40	800	300	100
Gonyaulax triacantha	0	0	0	20	0	0	20	80	20	0	0	0	0	0	20	40	0
Gyrodinium sp.	60	20	80	260	100	120	60	120	480	180	40	80	60	20	160	0	180
Peridinium conicum	0	0	0	0	0	60	0	80	60	140	0	40	0	0	300	180	20
Peridinium excentricum	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0
Peridinium ovatum	0	20	0	0	0	0	0	40	220	160	0	0	0	20	60	60	0
Peridinium sp.	1720	460	9260	10300	1040	3180	1280	29820	44300	35900	220	300	180	260	2620	2820	320
Peridinium triqueta	560	240	7840	11060	1260	2700	1120	34920	60500	37540	80	400	40	60	2920	7640	0
Prorocentrum micans	20	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0
Scrippsiella trochoidea	20	20	340	600	120	340	280	7660	17900	1760	60	20	0	0	400	2080	20
Chaetoceros socialis	0	0	0	20	0	0	0	0	0	0	0	0	20	20	0	0	400
Corethron criophilum	0	20	0	0	0	0	40	0	20	0	0	0	0	0	0	0	0
Gyrosigma littorale	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gyrosigma prolongatum	0	0	0	0	0	0	20	0	0	0	0	0	20	0	0	0	0
Leptocylindrus danicus	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	60	0
Leptocylindrus minimus	0	20	0	0	20	40	40	140	20	20	960	420	500	560	0	20	700
Navicula sp.	0	0	0	20	40	40	40	0	0	0	0	0	20	0	20	0	40
Nitzschia closterium	40	120	100	220	140	280	100	60	120	120	560	140	0	80	40	0	20
Nitzschia pseudodelicatissima	920	2800	23860	26120	29120	13320	6620	6720	9940	50600	9540	3840	60380	5580	5420	32640	27740
Nitzschia pungens	0	0	0	0	20	0	80	0	0	20	0	0	0	0	0	0	0
Pleurosigma angulatum	0	0	20	60	100	20	100	40	20	40	80	100	380	0	0	60	60
Rhizosolenia delicatula	0	0	20	0	0	0	500	0	0	0	5100	3320	4000	2300	0	0	100
Rhizosolenia gracillima	0	0	0	0	0	0	40	0	40	20	80	60	380	400	0	0	0
Rhizosolenia shrubsolei	0	0	0	0	0	0	60	0	0	20	0	0	60	0	0	0	0
Skeletonema costatum	60	40	60	80	380	0	60	20	160	400	560	100	140	40	0	0	0
Thalassiosira condensata	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0
Thalassiosira gravida	0	0	20	0	40	0	0	0	0	0	0	0	0	0	0	0	0
Thalassiosira sp.	40	20	0	0	0	0	0	60	0	80	60	0	0	0	0	0	0
Thalassiothrix nitzschiodes	20	20	0	20	20	0	20	20	40	0	120	0	40	20	20	40	0
Acartia sp.	40	20	0	40	0	40	40	0	0	120	20	40	60	0	240	120	40
Brachionus sp.	0	0	0	0	0	0	0	20	20	20	0	0	0	0	0	20	0
Distephanus speculum	140	20	240	300	280	100	280	140	100	160	300	280	300	260	1680	220	60
Euglena sp.	0	20	0	0	0	0	40	40	80	100	0	0	0	20	0	0	100
Eutreptia sp.	120	100	0	0	0	0	220	200	40	140	0	0	0	280	0	0	0
Favella sp.	0	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	0

STATION NUMBERS																	
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Helicostomella sp.	20	20	100	140	0	40	40	100	80	180	60	180	20	60	620	100	200
Mesodinium rubrum	440	120	500	140	100	160	460	360	1200	220	140	1200	20	80	80	2360	540
Notholca sp.	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Tintinnids	80	220	280	140	140	440	200	580	200	20	280	500	0	80	260	1640	420
Tintinnopsis campanula	0	0	0	0	0	0	0	0	60	20	0	0	0	0	0	0	0

DATE: 30- 08- 88 DEPTH: SURFACE

STATION NUMBERS																	
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Alexandrium fundyense	0	0	0	0	0	40	40	0	40	20	0	0	0	0	0	0	0
Ceratium longipes	20	0	40	40	40	40	40	40	60	20	40	20	40	40	40	60	20
Ceratium minutum	40	40	80	60	40	80	120	100	200	40	20	80	60	60	80	120	0
Dinophysis acuminata	100	60	80	80	20	140	200	60	160	80	100	100	0	160	60	120	0
Dinophysis acuta	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Dinophysis norvegica	0	0	40	20	40	20	60	100	60	60	40	40	60	140	20	40	0
Dinophysis rotundata	0	0	0	40	0	20	20	80	0	0	0	0	0	20	0	0	0
Dinophysis sp.	0	0	0	20	0	0	0	0	40	0	0	0	0	0	0	0	0
Gonyaulax spinifera	120	40	60	60	60	140	0	80	240	160	80	20	40	20	100	2180	20
Gonyaulax triacantha	0	0	0	20	0	0	0	20	20	0	0	0	0	0	40	20	0
Gyrodinium sp.	80	0	60	60	40	80	140	20	40	40	40	40	40	20	0	0	0
Peridinium sp.	1100	540	1460	1240	280	2320	2320	4040	2680	200	2320	460	680	440	6640	3000	100
Peridinium triqueta	2220	140	1000	1260	200	5260	4820	6760	3700	1140	1720	280	900	440	1300	1720	0
Scrippsiella trochoidea	320	120	120	240	40	460	660	300	580	120	200	220	200	120	1740	360	0
Cerataulina pelagica	0	0	0	0	0	0	0	20	0	0	0	20	0	0	0	0	0
Chaetoceros debilis	0	0	0	0	0	0	40	40	120	20	20	0	40	20	0	0	0
Chaetoceros laciniosus	0	20	20	0	20	0	40	40	20	40	0	0	0	100	0	0	20
Chaetoceros simplex	0	20	0	0	40	0	60	40	20	0	0	0	80	60	0	0	0
Chaetoceros socialis	0	0	0	0	260	0	480	0	160	320	0	120	80	280	20	0	0
Chaetoceros sp.	0	0	0	0	0	0	0	0	0	40	20	80	100	100	0	0	120
Corethron criophilum	20	20	20	20	0	0	0	0	80	0	0	0	40	20	20	0	0
Coscinodiscus sp.	0	20	0	0	0	0	0	0	20	0	20	0	0	0	40	20	0
Ditylum brightwelli	20	20	0	0	0	0	20	0	0	0	20	60	20	0	0	0	20
Guinardia flaccida	40	0	80	20	120	20	300	80	20	240	40	40	20	40	0	0	120
Gyrosigma littorale	0	0	0	0	20	0	0	40	0	0	0	0	0	0	0	0	0
Gyrosigma tennuissimum	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptocylindrus danicus	0	0	0	0	0	0	0	0	60	0	0	0	0	0	40	0	0
Leptocylindrus minimus	40	60	20	0	20	20	20	40	100	20	40	0	40	40	20	20	200
Lycmophora lyngbyei	0	0	0	0	0	0	60	20	0	0	40	0	40	40	0	20	20
Melosira ambigua	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Navicula sp.	0	0	20	20	0	0	0	20	0	20	0	0	0	0	0	0	0
Nitzschia closterium	40	40	180	20	60	80	180	120	140	60	20	80	100	40	20	40	20
Nitzschia pseudodelicatissima	2820	14240	7100	5200	55480	2520	93020	19400	122400	54520	5960	35900	88120	76700	660	23060	75080
Nitzschia pungens	60	40	120	0	140	40	100	20	60	60	20	60	60	0	20	140	60
Pleurosigma angulatum	20	60	20	20	40	20	40	20	0	40	20	80	140	120	20	20	0
Pleurosigma strigosum	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Rhabdonema sp.	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhizosolenia alata	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Rhizosolenia delicatula	40	100	80	0	280	20	540	220	260	380	60	400	640	360	0	60	60
Rhizosolenia gracillima	40	280	20	80	200	100	120	220	200	80	160	280	360	60	0	0	0
Rhizosolenia shrubsolei	0	20	20	40	40	60	80	140	160	360	60	60	340	220	0	0	0
Rhizosolenia sp.	0	20	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0
Skeletonema costatum	20	20	20	0	140	0	20	40	40	160	0	0	0	0	0	60	0
Stephanopyxis turris	0	20	40	0	40	0	40	20	100	20	40	20	20	40	0	20	0
Thalassiosira baltica	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Thalassiosira condensata	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Thalassiosira gravida	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thalassiosira rotuia	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thalassiosira sp.	0	0	0	0	20	0	0	20	20	0	0	0	20	20	0	20	0
Thalassicihrix nitzschiodes	0	0	0	0	80	0	20	40	40	40	0	20	0	0	0	0	0
Acartia sp.	20	0	0	40	40	40	60	0	20	40	0	0	0	0	60	0	20
Brachionus sp.	20	0	20	0	40	20	20	0	20	0	20	0	20	0	0	0	0
Distephanus speculum	20	60	0	60	0	40	280	40	120	60	20	80	60	140	20	80	0
Euglena sp.	0	0	0	40	0	0	0	100	20	0	20	0	40	0	20	0	80
Eutreptia sp.	0	0	0	40	0	20	0	120	0	0	0	0	0	0	20	0	0
Favella sp.	40	0	0	0	0	0	20	0	0	0	0	0	0	20	0	0	0
Helicostomella sp.	80	0	60	280	120	100	120	160	20	160	60	40	80	160	60	60	40
Mesodinium rubrum	360	40	360	480	80	520	240	20	1200	220	940	300	100	0	1280	680	20
Tintinnids	400	180	440	480	160	200	420	40	120	300	460	260	320	260	120	160	740

DATE: 06- 09- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	0	0	40	20	0	20	0	20	40	40	20	40	0	0	320	20	0
Ceratium longipes	20	0	40	20	20	60	40	40	60	180	20	0	20	20	460	100	0
Ceratium minutum	120	80	100	260	60	140	180	180	100	500	20	0	180	160	4860	140	80
Dinophysis acuminata	20	100	40	80	60	140	40	20	40	200	40	40	160	80	120	100	60
Dinophysis acuta	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dinophysis norvegica	20	60	20	160	20	20	40	0	40	80	20	0	20	0	500	60	20
Dinophysis rotundata	20	0	40	20	20	0	0	0	20	20	0	0	0	0	40	0	0
Dinophysis sp.	0	0	20	20	0	20	0	20	0	0	0	0	0	0	40	0	0
Gonyaulax spinifera	160	40	100	140	80	60	40	100	160	180	0	0	20	20	1660	60	0
Gyrodinium aureolum	0	0	40	0	20	0	0	20	20	0	0	0	0	0	160	20	0
Gyrodinium sp.	120	0	60	40	20	60	0	20	60	80	20	0	60	0	1660	80	0
Peridinium conicum	20	0	20	20	0	20	0	40	0	0	0	0	20	0	140	20	0
Peridinium ovatum	0	0	20	0	0	0	0	0	0	0	0	20	0	0	20	0	0
Peridinium sp.	1620	480	1120	1140	360	520	360	440	580	940	260	20	440	320	18860	460	100
Peridinium triqueta	1060	300	1320	1200	540	300	1100	360	500	4960	340	20	80	240	34940	60	20
Prorocentrum micans	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Scrippsiella trochoidea	1560	380	1240	1260	680	380	500	220	320	1800	60	0	200	160	29820	120	0
Chaetoceros debilis	0	0	0	0	0	20	20	0	0	40	40	0	60	40	60	100	80
Chaetoceros laciniosus	0	0	0	20	0	0	40	0	0	20	60	40	120	100	0	20	80
Chaetoceros socialis	0	0	580	340	480	180	400	20	260	2220	300	160	760	200	20	440	1060
Chaetoceros sp.	0	0	0	0	0	0	20	0	0	0	0	20	0	0	0	0	0
Coscinodiscus sp.	20	0	20	0	20	20	0	0	0	20	20	0	0	0	0	0	0
Ditylum brightwelli	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Guinardia flaccida	0	0	0	0	20	0	80	60	60	140	100	0	40	200	0	40	540
Gyrosigma fasciola	0	0	0	20	0	0	0	0	0	0	0	0	40	40	0	0	20
Leptocylindrus danicus	0	0	80	80	120	60	20	0	20	140	0	20	20	0	0	0	0
Leptocylindrus minimus	0	0	20	140	0	40	20	0	0	40	80	0	20	0	0	20	20
Lycmophora lyngbyei	0	0	0	0	0	20	0	60	0	0	0	0	0	0	0	0	20
Nitzschia closterium	0	20	20	0	20	20	0	80	20	60	0	80	20	0	0	20	20
Nitzschia pseudodelicatissima	720	720	7760	15600	2080	1240	52220	4300	14480	13380	60380	47320	127300	380260	20	564680	158300
Nitzschia pungens	0	0	20	100	80	0	0	20	20	20	60	20	40	160	0	60	0
Pleurosigma angulatum	0	0	0	20	20	0	40	0	0	0	20	0	20	0	0	20	0
Porosira glacialis	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Rhizosolenia delicatula	0	20	40	20	20	60	0	0	40	40	40	40	20	120	0	20	160
Rhizosolenia hebetata	60	60	80	0	0	40	40	20	0	20	60	0	160	200	0	420	600
Skeletonema costatum	20	0	0	20	40	0	0	0	0	40	20	0	0	0	0	0	0
Stephanopyxis turris	0	20	0	0	0	20	20	0	0	40	0	0	80	100	20	120	60
Thalassiosira rotula	0	0	0	0	60	0	0	0	0	20	0	0	0	0	0	0	0
Thalassiothrix nitzschiodes	0	0	0	0	20	0	0	20	0	0	40	0	0	0	0	0	0
Acartia sp.	0	20	20	40	20	20	0	20	20	20	0	0	60	0	40	0	40
Distephanus speculum	20	60	60	100	40	80	0	60	40	160	0	20	60	80	120	40	20
Eutreptia sp.	0	0	0	0	0	0	40	20	20	0	0	3580	0	0	0	0	0

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Favella sp.	0	0	20	0	0	0	0	0	40	0	0	0	0	0	120	0	0
Helicostomella sp.	100	20	80	180	100	20	20	80	60	20	40	0	100	40	160	60	100
Mesodinium rubrum	3040	720	2540	1080	1620	300	820	1180	1140	220	300	200	300	420	11620	480	2040
Tintinnids	240	180	360	500	220	80	220	220	380	80	40	20	160	100	980	440	460

DATE: 13- 09- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	0	0	0	0	0	0	60	0	0	0						0	0
Ceratium longipes	0	0	0	0	20	20	0	0	0	0						0	0
Ceratium minutum	0	40	0	0	40	20	0	0	0	100						20	0
Dinophysis acuminata	0	20	20	0	20	0	20	0	0	60						20	0
Dinophysis norvegica	20	20	0	0	0	20	20	0	0	20						20	0
Gonyaulax spinifera	0	0	20	0	0	0	0	0	0	0						0	0
Gyrodinium sp.	20	0	0	20	0	20	0	0	0	0						20	20
Peridinium sp.	20	60	40	40	60	0	0	0	0	60						100	0
Peridinium triqueta	0	0	20	0	0	0	0	0	0	0						0	20
Scrippsiella trochoidea	0	20	0	0	0	20	20	0	0	40						0	0
Bacteriosira fragilis	0	0	0	0	0	0	40	20	0	0						0	0
Biddulphia aurita	0	0	0	0	0	0	0	20	0	0						0	0
Cerataulina pelagica	0	0	0	0	0	20	0	0	0	40						0	0
Chaetoceros constrictus	0	0	0	0	20	0	0	0	0	0						0	0
Chaetoceros debilis	0	0	60	20	200	20	0	20	0	80						80	20
Chaetoceros decipiens	40	20	0	0	0	0	0	0	0	0						0	0
Chaetoceros laciniosus	0	0	0	0	0	0	0	40	0	60						20	20
Chaetoceros simplex	0	0	40	40	40	40	20	0	0	100						0	0
Chaetoceros socialis	40	100	500	40	0	20	0	240	0	5540						1240	40
Chaetoceros sp.	20	40	120	0	1380	80	0	140	40	40						0	0
Corethron criophilum	0	20	60	20	0	0	0	0	0	40						20	0
Coscinodiscus sp.	0	20	0	40	0	40	0	0	0	0						20	0
Ditylum brightwelli	20	0	0	0	0	0	0	0	0	40						0	20
Fragilaria sp.	0	0	20	80	20	20	0	0	0	0						0	0
Guinardia flaccida	0	160	0	0	340	20	0	0	0	40						80	360
Gyrosigma sp.	0	0	0	0	20	0	0	0	0	0						0	0
Leptocylindrus minimus	0	40	80	20	60	40	0	0	0	20						0	40
Lycmophora lyngbyei	0	0	0	40	20	100	0	0	0	0						0	0
Melosira nummuloides	0	0	0	0	60	0	0	0	0	0						0	0
Melosira sp.	0	0	0	0	0	0	0	0	0	20						0	0

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Navicula sp.	20	0	60	20	0	0	0	0	20	20						0	0
Nitzschia closterium	160	80	180	80	140	20	0	0	0	500						0	20
Nitzschia pseudodelicatissima	31520	48960	89760	32640	62200	44060	551620	88120	150140	197480						406360	66920
Nitzschia pungens	40	20	20	0	60	40	80	160	100	120						80	100
Nitzschia seriata	0	0	0	0	0	0	20	40	0	0						0	0
Pleurosigma angulatum	20	20	0	20	80	20	0	20	0	40						20	20
Rhizosolenia alata	0	0	0	0	0	0	0	0	0	20						0	0
Rhizosolenia delicatula	60	140	520	140	200	180	40	40	60	1120						60	40
Rhizosolenia fragillima	0	0	0	0	0	0	0	80	0	0						0	0
Rhizosolenia gracillima	0	20	140	40	0	40	0	0	0	0						0	0
Rhizosolenia hebetata	0	0	0	0	0	0	80	0	0	200						440	100
Rhizosolenia shrubsolei	40	40	200	0	160	20	0	0	0	220						0	0
Skeletonema costatum	0	0	0	0	0	60	20	0	0	160						20	0
Stephanopyxis turris	60	0	120	40	100	40	20	60	40	240						80	60
Striatella unipunctata	60	0	0	0	0	0	0	0	0	0						0	0
Thalassiosira condensata	0	0	0	0	40	0	0	0	0	20						0	0
Thalassiosira rotula	0	0	0	0	0	0	0	0	20	60						0	0
Thalassiosira sp.	20	100	60	0	20	0	0	0	0	0						0	0
Thalassiothrix nitzschiodes	0	80	0	0	20	0	0	0	0	20						0	0
Acartia sp.	40	20	20	40	0	0	0	0	0	40						20	0
Distephanus speculum	20	40	20	0	20	40	0	0	0	20						0	20
Euglena sp.	0	0	20	0	0	20	0	0	0	0						0	0
Favella sp.	0	0	0	0	0	0	20	0	0	0						0	0
Helicostomella sp.	20	0	20	0	0	20	0	0	0	20						0	20
Mesodinium rubrum	120	60	40	0	0	0	40	180	60	0						0	20
Tintinnids	100	120	40	100	40	260	0	0	0	240						20	80

DATE: 21- 09- 88 DEPTH: SURFACE

STATION NUMBERS / ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Alexandrium fundyense	0	0	0	0	0	0	40	0	60	100	0	20	0	0	240	0	20
Alexandrium (duplet)	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20	0	0
Ceratium longipes	0	40	40	60	0	20	20	40	0	80	0	0	0	0	60	0	20
Ceratium minutum	80	100	200	420	240	420	1560	720	620	620	40	40	180	20	860	40	80
Dinophysis acuminata	0	20	20	40	40	0	100	60	100	40	40	0	0	20	160	0	0
Dinophysis norvegica	0	0	40	40	20	0	20	40	20	20	0	0	20	0	120	40	0
Dinophysis rotundata	0	0	20	0	0	0	0	20	40	0	0	20	0	0	0	0	0
Dinophysis sp.	0	0	0	0	0	20	0	0	20	0	0	0	40	0	0	0	0
Gonyaulax spinifera	20	40	60	20	100	40	0	0	100	200	20	20	0	0	220	20	40
Gonyaulax triacantha	0	0	0	0	20	20	0	0	0	0	0	0	40	0	0	0	0
Gyrodinium aureolum	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Gyrodinium sp.	0	80	140	120	80	60	160	20	60	140	20	40	20	20	140	40	0
Peridinium conicum	0	0	0	0	0	0	20	0	0	40	0	0	20	0	60	0	0
Peridinium ovatum	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	20
Peridinium sp.	20	240	200	800	540	520	1360	520	860	860	140	80	540	80	1140	80	80
Peridinium triqueta	0	0	40	0	60	0	180	20	60	180	0	0	40	0	420	0	0
Scrippsiella trochoidea	0	60	280	160	180	120	480	60	440	360	40	20	80	60	640	60	40
Biddulphia obtusa	0	0	0	0	20	0	0	0	0	0	0	20	0	0	0	0	0
Cerataulina pelagica	20	0	0	0	60	0	80	0	20	20	0	0	100	0	0	0	0
Chaetoceros constrictus	0	0	20	20	0	20	0	0	60	20	0	0	0	20	20	0	0
Chaetoceros debilis	20	60	440	320	800	420	1220	960	1460	540	200	140	240	60	1100	260	200
Chaetoceros decipiens	0	0	40	0	20	0	0	0	20	60	20	0	0	0	20	0	0
Chaetoceros didymus	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Chaetoceros laciniosus	20	20	40	80	120	120	140	140	460	100	20	20	80	20	600	60	60
Chaetoceros simplex	0	0	0	0	0	20	0	0	0	20	20	20	60	40	0	0	0
Chaetoceros socialis	0	80	1200	680	1580	580	780	2480	4480	5460	40	0	160	40	3040	100	120
Chaetoceros sp.	20	0	20	40	0	20	740	0	60	0	20	0	0	20	0	0	0
Chaetoceros teres	0	0	0	0	0	0	0	20	0	20	0	0	0	0	20	0	0
Corethron criophilum	0	40	40	40	0	40	60	120	60	40	0	40	0	0	0	60	20
Coscinodiscus sp.	0	0	20	40	20	40	0	0	20	0	0	0	0	0	0	0	0
Coscinosira polychorda	0	20	40	40	0	40	0	0	20	40	20	0	0	0	40	40	0
Ditylum brightwelli	20	20	40	0	40	60	180	60	40	60	0	40	40	0	20	20	0
Fragilaria sp.	0	0	0	40	0	0	0	0	0	0	0	20	0	0	0	0	0
Guinardia flaccida	0	0	0	560	140	80	260	280	20	180	80	0	340	80	100	120	240
Gyrosigma fasciola	0	0	40	0	0	0	0	0	0	0	0	0	0	0	20	0	0
Gyrosigma tennuissimum	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptocylindrus danicus	0	0	0	0	0	340	0	0	0	0	20	0	0	0	80	0	0
Leptocylindrus minimus	20	0	120	80	20	60	20	40	140	100	240	140	40	100	160	40	20
Lycmophora lyngbyei	0	0	0	0	0	0	20	0	0	0	0	20	0	0	0	0	20
Nitzschia closterium	60	60	420	140	320	560	80	120	560	920	40	40	20	40	200	0	20
Nitzschia pseudodelicatissima	1560	3100	15760	16680	14000	15380	173800	39200	27120	23100	48560	62020	202360	105640	6800	127300	355780
Nitzschia pungens	0	100	140	180	260	340	600	180	320	400	200	40	120	260	340	300	160

STATION NUMBERS / ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Nitzschia seriata	0	0	40	0	0	0	0	0	0	40	0	0	0	0	20	0	20
Paralia sulcata	0	0	0	0	0	20	0	0	40	20	0	0	0	0	0	0	0
Pleurosigma angulatum	0	0	0	0	0	0	60	0	0	0	20	20	0	40	0	0	0
Pleurosigma strigosum	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Rhizololenia stolterfothii	0	0	20	0	0	0	0	0	0	0	0	0	0	160	0	0	0
Rhizosolenia alata	0	0	0	0	0	0	40	20	0	0	0	0	0	20	0	0	0
Rhizosolenia delicatula	0	60	60	220	200	400	800	200	320	120	200	20	320	280	20	0	180
Rhizosolenia gracillima	0	0	0	60	0	40	0	0	0	40	0	0	20	0	0	0	0
Rhizosolenia hebetata	0	0	0	0	0	20	20	0	80	0	20	0	0	0	100	120	100
Rhizosolenia shrubsolei	0	0	40	0	140	160	60	20	40	60	120	20	40	0	0	0	0
Rhizosolenia sp.	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0
Skeletonema costatum	0	0	0	20	40	0	160	0	20	40	760	160	20	260	0	0	40
Stephanopyxis turris	0	160	380	420	540	540	2300	880	1580	1080	40	40	300	20	100	160	40
Thalassiosira baltica	0	0	0	0	0	0	0	0	20	0	0	0	40	0	0	0	0
Thalassiosira condensata	40	0	40	20	20	20	80	60	40	60	20	60	0	20	0	0	20
Thalassiosira rotula	0	0	0	0	0	0	0	0	60	60	0	0	0	0	0	0	0
Thalassiosira sp.	0	0	40	40	20	60	60	0	0	20	40	0	60	80	0	0	0
Thalassiothrix nitzschioides	0	20	0	40	20	60	100	20	20	20	0	0	20	0	0	0	0
Acartia sp.	40	20	20	80	0	60	60	20	20	0	0	0	0	0	0	0	40
Brachionus sp.	20	0	0	20	20	20	0	0	0	0	0	0	0	0	0	0	0
Distephanus speculum	20	0	0	0	0	40	0	100	0	100	20	0	20	0	0	40	0
Euglena sp.	20	0	20	0	0	0	0	80	40	0	0	20	40	0	0	0	0
Eutreptia sp.	0	0	60	0	40	40	0	0	0	40	0	0	0	0	40	0	0
Favella sp.	0	0	0	20	0	0	20	0	20	0	0	0	0	0	40	0	0
Helicostomella sp.	0	0	20	0	20	20	40	20	20	0	0	20	0	0	240	20	40
Mesodinium rubrum	0	1220	1480	2200	1240	500	560	660	680	880	240	3100	740	100	660	60	500
Tintinnids	160	540	380	740	580	280	800	440	200	360	160	20	140	80	280	80	200

DATE: 27- 09- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Ceratium longipes	0	40	0	0	0	0	0	0	20	0	0	0	0	0	20	0	0
Ceratium minutum	0	20	20	0	0	0	80	0	100	0	40	20	60	20	160	0	0
Dinophysis acuminata	0	0	0	0	0	0	20	0	0	0	0	0	40	0	20	0	0
Gonyaulax spinifera	0	0	0	0	0	0	20	0	20	0	0	0	0	0	20	20	0
Gyrodinium aureolum	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Gyrodinium sp.	20	0	40	0	0	0	60	20	180	0	0	0	0	0	0	40	20
Peridinium conicum	0	0	20	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Peridinium sp.	20	40	0	0	0	0	160	0	120	0	0	0	20	0	20	120	40
Peridinium triqueta	0	0	0	0	0	0	0	0	0	40	0	0	0	0	120	0	0
Scrippsiella trochoidea	0	40	0	0	0	0	0	0	60	0	0	0	0	0	80	20	0
Chaetoceros constrictus	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros debilis	40	60	100	0	80	0	160	20	240	0	20	0	20	40	520	20	0
Chaetoceros decipiens	0	20	0	0	0	0	0	0	40	0	0	0	0	0	20	0	0
Chaetoceros laciniosus	20	0	20	0	40	0	60	20	60	0	0	20	0	0	20	0	0
Chaetoceros socialis	40	0	0	0	80	20	20	0	20	40	0	0	20	0	720	20	20
Corethron criophilum	20	0	60	0	0	0	0	0	60	0	0	0	0	0	0	20	0
Coscinodiscus sp.	20	0	0	20	0	0	40	20	0	0	0	0	20	0	0	0	0
Coscinosira polychorda	0	0	0	20	0	0	0	0	0	0	20	0	0	0	0	20	0
Ditylum brightwelli	0	0	0	20	40	0	0	0	20	0	0	0	20	0	0	0	20
Guinardia flaccida	80	0	80	0	40	0	100	140	80	160	0	0	40	40	20	0	20
Gyrosigma fasciola	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptocylindrus danicus	20	20	0	0	0	0	100	20	20	40	0	0	0	0	0	0	0
Leptocylindrus minimus	0	20	0	0	0	40	0	0	20	0	0	0	20	0	60	20	60
Navicula sp.	0	0	40	0	40	0	20	0	0	0	0	0	20	20	0	0	0
Nitzschia closterium	0	0	20	40	0	20	20	0	0	0	0	0	40	0	40	20	0
Nitzschia pseudodelicatissima	31000	110980	57120	66920	78340	35900	138720	159940	280700	143620	22840	21220	78340	39160	2860	173000	76700
Nitzschia pungens	20	0	100	40	40	100	100	100	80	80	20	0	60	20	160	40	80
Paralia sulcata	0	0	20	20	0	0	0	20	0	0	0	0	0	0	0	0	0
Pleurosigma angulatum	0	0	20	0	0	0	20	0	0	80	0	0	20	20	0	0	0
Rhizosolenia delicatula	20	40	0	0	40	20	20	0	100	0	40	0	20	40	0	20	100
Rhizosolenia hebetata	0	0	0	40	40	40	100	20	40	40	120	80	80	0	0	40	160
Skeletonema costatum	0	20	0	0	0	0	0	0	20	0	0	0	0	0	0	0	40
Stephanopyxis turris	0	0	0	0	0	0	0	20	0	40	0	0	0	0	20	20	0
Thalassiosira gravida	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thalassiosira rotula	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	40	0
Thalassiothrix nitzschioides	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Acartia sp.	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Distephanus speculum	0	0	20	0	0	0	40	0	40	0	20	0	0	20	20	40	0
Eutreptia sp.	0	0	0	0	0	0	120	0	0	0	0	0	0	20	0	0	0
Mesodinium rubrum	100	0	0	0	0	0	200	40	140	40	20	0	40	0	60	140	80
Tintinnids	0	20	0	20	0	0	80	0	20	0	0	40	20	0	0	20	40
Tintinnopsis campanula	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0

DATE: 04- 10- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	0	0	0	0	20	0	20	0	0	0	40	20	0	60	0	0	0
Ceratium longipes	0	0	0	0	0	0	0	0	20	0	0	0	0	40	0	0	0
Ceratium minutum	0	20	0	0	20	20	80	0	100	80	60	60	20	120	0	80	20
Dinophysis acuminata	0	0	0	0	0	0	60	0	20	0	0	0	20	0	0	0	0
Dinophysis norvegica	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Gonyaulax spinifera	0	0	0	0	0	0	20	20	20	0	0	0	0	20	20	0	20
Gonyaulax triacantha	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Gyrodinium aureolum	0	0	0	0	0	0	20	0	60	20	0	0	0	20	20	0	0
Gyrodinium sp.	20	0	0	20	40	120	280	60	180	60	40	20	20	160	0	140	260
Peridinium sp.	20	0	0	0	60	20	140	20	200	20	60	0	80	320	100	80	40
Peridinium triqueta	0	0	0	0	0	0	0	20	80	20	0	0	20	60	0	0	0
Prorocentrum micans	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0
Asterionella japonica	0	0	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros debilis	0	0	20	20	40	0	60	40	40	40	40	20	0	40	180	0	0
Chaetoceros decipiens	0	0	0	0	0	0	0	0	20	0	0	0	0	20	20	0	0
Chaetoceros laciniosus	0	20	80	20	0	0	0	0	0	0	0	60	60	0	20	0	20
Chaetoceros simplex	0	0	40	0	0	0	0	0	0	0	0	0	0	40	0	0	0
Chaetoceros socialis	0	0	0	0	0	0	20	0	0	0	0	40	0	20	100	0	0
Chaetoceros sp.	0	0	120	20	0	0	0	0	20	0	80	40	0	0	0	0	20
Chaetoceros teres	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20	0
Corethron criophilum	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20	0	0
Coscinodiscus sp.	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Ditylum brightwelli	0	0	0	0	0	20	60	20	0	0	0	40	60	20	20	40	0
Guinardia flaccida	0	0	0	0	0	0	100	100	100	0	180	0	0	0	280	40	280
Gyrosigma fasciola	0	0	0	0	0	20	20	20	0	0	0	20	0	0	0	0	0
Gyrosigma sp.	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptocylindrus danicus	0	0	0	0	0	0	0	20	0	0	0	0	0	0	100	0	0
Leptocylindrus minimus	0	20	0	0	60	20	140	20	60	40	60	140	80	40	80	40	60
Lycmophora lyngbyei	0	0	0	0	0	20	0	20	0	0	20	40	0	0	0	0	0
Nitzschia closterium	60	20	20	0	40	0	100	0	60	40	180	40	80	140	160	80	40
Nitzschia pseudodelicatissima	20	40	120	60	80	80	80	20	0	120	40	0	0	180	200	1300	1340
Nitzschia pungens	0	0	0	60	0	0	0	0	80	0	160	20	20	40	0	0	80
Pleurosigma angulatum	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Rhizosolenia delicatula	0	0	0	80	20	20	160	0	60	60	80	140	260	480	0	240	100
Rhizosolenia fragillima	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhizosolenia hebetata	0	0	0	0	0	20	20	60	40	20	20	0	0	40	0	20	140
Stephanopyxis turris	0	0	0	0	0	0	0	20	0	0	0	0	0	20	0	0	0
Thalassiosira condensata	0	0	0	0	0	0	0	0	20	0	20	40	0	20	0	0	0
Thalassiosira rotula	0	0	0	0	0	0	20	0	0	0	20	0	0	0	0	0	0
Thalassiothrix nitzschiodes	0	0	0	0	20	20	20	20	40	20	20	0	0	0	20	20	20
Acartia sp.	20	0	0	0	0	0	0	0	40	20	0	0	0	20	20	0	0
Distephanus speculum	0	0	0	0	0	20	20	80	120	40	20	0	140	200	0	140	100

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Euglena sp.	0	0	0	0	0	0	0	0	0	20	0	0	0	40	0	0	20
Eutreptia sp.	0	0	0	0	0	20	20	0	0	20	80	400	0	260	0	120	0
Mesodinium rubrum	100	40	20	80	360	40	740	600	1700	520	120	4260	260	520	800	280	1640
Tintinnids	40	40	0	20	160	60	140	160	280	160	80	60	40	200	140	20	160
Tintinnopsis campanula	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0

DATE: 11- 10- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Ceratium longipes	20	0	0	0	0	0	0	0	20	0					0		0
Ceratium minutum	80	140	140	120	140	40	160	80	60	40					660		40
Dinophysis acuminata	20	0	0	0	0	0	20	0	20	0					0		0
Dinophysis norvegica	0	60	20	20	20	0	0	20	0	20					80		0
Gonyaulax spinifera	0	0	20	60	60	0	60	40	80	20					480		0
Gyrodinium aureolum	0	0	20	0	0	0	0	0	0	0					220		0
Gyrodinium sp.	0	20	0	0	60	0	20	20	0	0					0		40
Peridinium sp.	0	40	0	20	0	0	100	0	20	0					240		20
Peridinium triqueta	0	0	0	0	0	0	20	0	0	0					60		0
Chaetoceros debilis	0	0	20	0	20	0	0	0	20	0					0		0
Chaetoceros decipiens	0	0	0	0	0	0	40	0	0	0					0		0
Chaetoceros socialis	0	20	0	0	0	0	0	0	0	20					0		0
Corethron criophilum	0	0	0	0	0	0	0	20	0	0					0		40
Coscinodiscus sp.	0	0	0	20	0	20	0	20	20	0					20		0
Ditylum brightwelli	0	0	20	0	20	0	0	0	0	0					20		0
Guinardia flaccida	0	0	0	20	0	0	0	0	80	80					120		0
Gyrosigma fasciola	0	0	0	0	20	0	0	0	0	0					0		0
Leptocylindrus minimus	20	0	20	0	0	20	40	0	0	20					0		20
Lycmophora lyngbyei	0	0	0	0	0	0	0	0	20	0					0		0
Navicula sp.	0	0	0	0	0	0	0	0	0	20					0		0
Nitzschia closterium	160	80	60	60	40	40	200	20	40	40					280		40
Nitzschia pseudodelicatissima	0	20	60	0	40	0	20	0	20	20					100		20
Pleurosigma angulatum	0	0	0	0	40	0	40	0	0	20					0		0
Rhizosolenia delicatula	0	0	20	0	0	40	0	0	20	0					40		20
Rhizosolenia hebetata	0	60	20	0	20	0	0	0	0	20					0		20
Thalassiothrix nitzschiodes	0	0	0	20	20	0	0	0	40	20					0		40
Acartia sp.	0	0	0	0	0	0	40	20	0	0					0		0
Distephanus speculum	0	0	20	20	20	0	120	140	20	20					20		60
Euglena sp.	0	0	0	20	20	0	0	0	0	0					20		20
Helicostomella sp.	0	0	0	0	20	0	0	0	0	0					0		0
Mesodinium rubrum	160	420	300	180	280	40	1060	140	500	580					2700		460
Notholca sp.	0	0	0	0	0	0	0	20	0	0					0		0
Tintinnids	60	160	260	160	20	20	140	20	60	160					20		80

DATE: 18- 10- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Ceratium minutum	20	0	60	60	40	60	120	120	180	260	100	40	60		160	80	0
Dinophysis acuminata	0	0	0	0	0	0	0	0	20	0	0	0	0		0	0	0
Dinophysis norvegica	0	0	0	0	0	0	0	0	0	60	0	0	0		20	20	0
Gonyaulax spinifera	20	0	0	0	0	0	20	40	0	100	0	0	20		80	100	0
Gyrodinium aureolum	0	0	0	0	0	0	20	20	0	20	0	0	0		20	0	0
Gyrodinium sp.	20	0	0	0	0	0	0	0	20	0	0	0	0		0	0	60
Peridinium sp.	0	0	0	20	0	0	0	0	20	0	20	0	0		40	40	0
Peridinium triqueta	0	0	0	20	0	0	0	0	0	0	0	0	20		0	0	0
Prorocentrum micans	0	0	0	0	0	0	0	0	0	20	0	0	0		0	0	0
Scrippsiella trochoidea	20	0	0	0	0	0	0	0	60	0	40	0	0		0	20	0
Chaetoceros debilis	0	0	0	0	0	20	0	0	0	0	0	0	0		0	0	20
Chaetoceros decipiens	0	0	0	0	0	0	20	20	0	0	0	0	0		0	0	0
Corethron criophilum	0	0	20	0	0	0	20	0	0	0	0	0	0		0	0	20
Coscinodiscus sp.	0	0	0	20	0	20	0	0	0	40	0	20	0		0	0	0
Ditylum brightwelli	0	0	0	0	0	20	20	0	0	20	0	0	0		0	0	0
Fragilaria sp.	20	0	0	0	20	0	20	0	0	0	0	0	0		0	0	0
Guinardia flaccida	0	0	0	0	0	0	0	0	0	20	0	0	0		0	0	0
Leptocylindrus danicus	0	0	0	0	0	0	0	0	0	20	0	20	0		0	0	0
Leptocylindrus minimus	0	0	0	0	0	0	40	0	20	0	20	20	0		0	20	0
Lycmophora lyngbyei	0	0	0	0	0	0	40	0	0	0	0	0	0		0	0	0
Navicula sp.	0	0	0	0	20	0	40	0	20	0	0	0	0		20	0	20
Nitzschia closterium	20	0	0	20	40	40	40	0	60	60	140	20	60		140	40	140
Nitzschia pseudodelicatissima	0	0	0	0	20	0	0	0	0	20	40	20	0		80	0	0
Pleurosigma angulatum	0	0	0	20	0	0	0	0	0	0	0	20	20		0	20	20
Rhizosolenia delicatula	0	0	0	0	0	0	0	20	0	0	0	0	0		0	0	0
Rhizosolenia hebetata	0	0	0	0	0	0	0	20	0	0	0	0	0		0	0	0
Thalassiosira gravida	0	0	0	0	0	0	0	0	20	0	20	0	0		0	0	0
Thalassiothrix nitzschiodes	0	0	0	0	0	0	0	0	0	40	0	0	40		40	20	20
Acartia sp.	0	0	0	0	0	0	20	0	0	0	0	20	0		20	20	0
Distephanus speculum	0	0	0	40	0	0	60	40	140	40	20	0	40		40	40	60
Favella sp.	0	0	0	0	0	0	0	0	0	20	0	0	0		0	0	0
Mesodinium rubrum	160	540	120	160	120	220	280	340	460	580	520	560	160		1220	220	860
Tintinnids	20	200	100	80	100	120	80	0	20	60	0	180	20		0	100	100

DATE: 25- 10- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	0	0	0	0	0	0	0	0	20	0	0	0	0	0		0	0
Ceratium longipes	0	0	20	0	0	0	0	20	0	0	0	0	0	0		0	0
Ceratium minutum	80	40	120	60	100	80	300	220	80	40	40	20	60	120		80	40
Dinophysis norvegica	0	0	0	0	0	0	0	20	0	0	0	0	0	0		0	0
Gonyaulax spinifera	20	20	20	0	0	0	0	0	120	0	0	0	20	20		20	20
Gyrodinium aureolum	0	0	20	0	0	0	0	0	0	0	0	0	0	0		0	0
Gyrodinium sp.	0	0	20	0	0	0	0	0	0	0	0	0	0	0		0	0
Peridinium sp.	20	0	20	0	20	0	20	0	20	20	0	0	20	0		0	0
Peridinium triqueta	0	0	0	0	0	20	0	0	0	0	0	0	0	0		0	0
Scrippsiella trochoidea	0	0	0	0	0	0	0	20	0	0	0	0	0	0		0	0
Bacillaria paradoxa	0	0	0	0	0	0	0	0	20	0	0	0	0	0		0	0
Chaetoceros simplex	0	0	0	0	0	0	0	0	20	0	0	0	0	0		0	0
Corethron criophilum	0	0	0	0	0	0	0	0	20	0	0	0	0	0		0	20
Coscinodiscus sp.	0	0	0	0	0	20	0	0	20	0	0	0	0	0		0	0
Ditylum brightwelli	60	20	0	0	0	0	20	0	0	20	20	20	0	0		20	20
Leptocylindrus minimus	0	0	20	20	0	0	0	20	0	20	0	20	0	0		0	0
Navicula sp.	20	0	0	0	0	0	0	20	20	20	0	0	20	0		0	0
Nitzschia closterium	100	80	140	20	40	80	60	20	20	80	60	0	100	40		20	60
Nitzschia pseudodelicatissima	60	60	60	0	60	20	0	40	20	40	20	20	20	0		0	20
Nitzschia pungens	0	20	0	0	20	0	0	0	0	0	0	0	0	0		0	0
Pleurosigma angulatum	20	0	20	0	0	0	0	0	0	0	0	0	0	0		0	60
Pleurosigma strigosum	0	0	0	0	20	0	0	0	0	0	20	0	0	0		0	0
Rhizosolenia delicatula	0	0	0	0	0	20	0	0	0	0	0	0	0	0		0	0
Rhizosolenia hebetata	0	0	0	0	20	0	0	0	0	0	0	0	0	0		0	0
Skeletonema costatum	20	0	0	0	20	0	0	0	0	0	0	0	0	0		0	0
Stephanopyxis turris	20	0	0	0	20	0	0	0	0	0	0	0	0	0		0	0
Thalassiosira rotula	0	0	0	0	0	0	0	20	0	0	0	0	0	0		0	0
Thalassiothrix nitzschiodes	0	40	0	0	0	20	20	20	0	0	0	0	0	0		0	0
Acartia sp.	0	20	0	0	0	0	0	0	20	0	0	0	0	0		0	0
Distephanus speculum	20	20	40	40	20	20	60	0	20	80	0	0	0	20		0	0
Euglena sp.	20	0	0	0	0	20	0	0	20	0	0	0	20	0		0	20
Eutreptia sp.	20	20	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Mesodinium rubrum	340	120	140	40	40	320	460	440	100	120	20	200	20	40		20	380
Tintinnids	60	60	140	40	120	260	40	100	120	80	0	20	60	20		20	80

DATE: 08- 11- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	0	0	0	0	0	20	0	0	0	0	0	0	20	40	0	0	0
Ceratium longipes	20	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceratium minutum	80	280	140	40	100	60	140	360	160	80	0	0	100	400	580	120	60
Dinophysis norvegica	40	0	0	0	20	0	40	60	0	0	0	0	20	0	0	0	0
Dinophysis rotundata	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Dinophysis sp.	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0
Gonyaulax spinifera	0	0	20	0	20	0	0	0	0	0	0	0	0	20	80	20	0
Gonyaulax triacantha	0	0	0	0	0	0	40	0	0	0	0	0	0	40	0	0	0
Gyrodinium aureolum	20	0	40	0	0	20	0	20	40	20	0	0	0	0	60	0	0
Gyrodinium sp.	0	20	0	0	0	0	0	20	0	40	0	0	0	0	0	20	0
Peridinium limbatum	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peridinium sp.	40	0	20	20	20	0	20	80	20	60	0	0	0	60	20	0	20
Peridinium triqueta	0	0	20	0	20	0	0	20	20	0	0	0	0	0	0	0	0
Scrippsiella trochoidea	20	20	0	0	0	0	0	0	0	0	0	0	20	20	0	20	0
Biddulphia regia	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0
Chaetoceros constrictus	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros simplex	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20	0
Coscinodiscus sp.	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0
Ditylum brightwelli	0	20	0	0	40	20	20	20	0	20	20	40	80	0	20	40	0
Guinardia flaccida	0	0	0	0	0	0	0	0	0	20	0	0	20	0	0	0	0
Leptocylindrus minimus	0	0	20	0	0	0	0	0	0	0	0	0	20	0	20	0	0
Melosira nummuloides	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Navicula sp.	0	0	0	0	20	20	0	0	0	0	0	20	20	0	0	0	60
Nitzschia closterium	40	20	60	60	40	60	180	140	80	0	40	100	100	40	20	220	20
Nitzschia pseudodelicatissima	0	20	20	0	20	0	60	60	80	20	0	20	0	0	20	60	20
Nitzschia pungens	0	0	0	0	0	0	20	0	20	20	0	0	0	0	20	0	0
Rhizosolenia delicatula	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Rhizosolenia setigera	20	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0
Skeletonema costatum	40	0	20	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Stephanopyxis turris	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	20
Thalassiosira condensata	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Thalassiothrix nitzschiodes	20	0	0	0	0	20	0	40	0	20	0	0	0	20	40	0	0
Acartia sp.	40	0	0	0	0	0	0	0	0	0	0	0	0	40	20	0	0
Distephanus speculum	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Euglena sp.	20	0	0	0	20	40	60	20	0	0	20	40	0	0	0	0	0
Mesodinium rubrum	3560	220	320	420	160	20	220	340	420	160	0	300	220	120	60	40	240
Tintinnids	300	60	120	200	180	20	60	80	100	0	80	120	80	80	160	0	0
Tintinnopsis sp.	200	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0

DATE: 01- 12- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceratium minutum	20	0	0	0	0	0	40	0	20	0	40	0	40	40	20	40	0
Gonyaulax spinifera	0	0	20	0	0	0	0	0	0	0	0	0	0	0	20	0	0
Gyrodinium aureolum	0	0	20	0	0	0	0	0	0	0	20	0	20	0	0	0	0
Peridinium sp.	0	0	20	0	20	20	0	20	20	0	0	0	20	0	20	40	0
Peridinium triqueta	0	0	0	0	0	0	20	0	0	40	0	0	0	0	0	0	0
Scrippsiella trochoidea	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0
Actinoptychus undulatus	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros lorenzianus	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corethron criophilum	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinodiscus sp.	0	0	0	0	0	0	0	0	0	20	0	0	0	0	20	0	20
Ditylum brightwelli	0	0	0	0	0	0	40	60	60	20	20	40	20	20	0	20	0
Fragilaria sp.	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0
Leptocylindrus minimus	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0
Melosira ambigua	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Melosira moniliformis	0	0	0	20	0	0	0	0	0	0	0	0	20	0	0	0	0
Melosira sp.	20	0	0	0	0	0	0	0	0	0	20	0	0	20	0	0	0
Navicula sp.	0	0	40	0	0	40	0	20	0	0	0	20	20	0	0	0	0
Nitzschia closterium	80	60	120	120	40	40	140	340	60	120	180	120	140	20	40	60	80
Nitzschia pseudodelicatissima	0	0	0	20	40	0	80	60	60	100	20	80	100	0	40	40	60
Rhabdonema adriaticum	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Skeletonema costatum	0	0	0	0	0	20	0	20	0	0	0	0	0	0	0	0	0
Thalassiosira baltica	0	0	0	0	0	0	0	20	0	0	0	20	0	0	0	0	0
Thalassiothrix nitzschiodes	0	20	20	20	0	0	0	0	0	0	0	20	0	20	0	0	0
Brachionus sp.	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Distephanus speculum	0	0	20	20	0	0	0	0	0	20	0	0	0	0	0	20	0
Eutreptia sp.	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Mesodinium rubrum	420	0	80	160	320	1020	0	0	120	160	100	180	100	100	0	40	40
Tintinnids	20	0	40	60	0	20	0	0	0	0	0	20	40	40	20	40	40

DATE: 08- 12- 88 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Ceratium minutum	0	0	0	20	0	0	0	0	0	0	0	20	20	0	0	0	0
Peridinium sp.	0	0	0	0	0	20	0	20	0	0	0	0	0	40	0	20	0
Peridinium triqueta	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros decipiens	0	0	0	20	0	0	0	0	40	0	0	0	0	20	0	0	0
Chaetoceros socialis	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros sp.	0	0	0	20	0	0	20	0	0	0	0	0	0	0	0	0	0
Corethron criophilum	0	20	0	20	20	40	0	0	0	0	0	0	0	0	0	0	0
Coscinodiscus sp.	0	0	0	0	20	20	0	0	0	0	0	20	0	0	0	0	0
Coscinosira polychorda	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Ditylum brightwelli	0	40	80	40	0	0	60	40	100	100	20	40	80	60	0	60	20
Fragilaria sp.	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Guinardia flaccida	0	0	20	0	0	0	0	0	0	20	0	0	0	0	0	0	0
Leptocylindrus minimus	0	40	20	0	0	0	20	0	20	0	0	20	20	0	0	20	0
Lycmophora lyngbyei	0	0	0	20	0	0	0	0	0	0	0	0	20	0	20	0	0
Melosira sp.	0	0	0	20	0	0	0	0	20	0	0	0	0	0	0	0	0
Navicula sp.	0	20	40	60	0	20	20	0	60	0	60	0	20	0	40	0	20
Nitzschia closterium	80	400	200	520	60	200	580	360	500	120	200	160	300	180	980	620	80
Nitzschia pseudodelicatissima	60	260	80	20	20	100	240	280	40	20	0	40	260	20	500	80	40
Nitzschia pungens	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Pleurosigma angulatum	0	0	20	20	0	0	0	40	20	20	0	0	0	0	40	0	0
Pleurosigma strigosum	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Rhabdonema adriaticum	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhizosolenia delicatula	0	0	20	0	0	0	0	0	20	20	20	0	40	20	40	60	0
Rhizosolenia hebetata	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Skeletonema costatum	0	0	20	0	0	0	0	0	0	0	0	0	0	0	20	0	0
Thalassiosira condensata	0	0	20	20	0	0	0	0	0	0	0	0	40	0	20	0	0
Thalassiosira gravida	0	0	0	0	0	0	0	20	0	0	0	0	20	0	20	0	0
Thalassiothrix nitzschiodes	0	0	20	20	0	0	0	20	0	0	0	20	20	0	0	40	0
Distephanus speculum	0	0	20	0	0	20	0	20	0	0	0	20	0	20	0	0	0
Euglena sp.	20	20	20	0	0	0	40	0	20	40	20	0	0	0	0	20	0
Mesodinium rubrum	520	80	20	0	440	220	20	20	0	0	80	300	40	140	140	60	0
Notholca sp.	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tintinnids	160	260	40	200	80	100	140	0	80	40	40	160	100	0	160	20	20

APPENDIX 4. Phytoplankton densities as number of cells/L for surface seawater in the Western Isles region during 1989.

DATE: 19-01-89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Ceratium minutum	0	0	0	0	60	0	0	20	0	0	0	0	0	0	0	20	0
Gyrodinium sp.	0	0	0	20	20	0	20	0	0	0	0	60	0	0	0	0	20
Prorocentrum micans	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Actinoptychus undulatus	0	20	80	0	0	0	0	0	20	20	0	0	20	0	20	0	20
Biddulphia aurita	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Biddulphia obtusa	0	0	0	0	0	0	0	0	20	0	0	20	0	0	20	20	0
Cerataulina pelagica	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoceros decipiens	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corethron criophilum	0	0	0	0	40	0	0	20	20	60	0	0	0	20	20	0	0
Coscinosira polychorda	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Detonula cystifera	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Ditylum brightwelli	0	0	0	0	0	20	0	0	0	40	20	0	0	20	0	0	0
Gyrosigma fasciola	40	0	0	0	0	0	0	0	0	0	0	1340	0	80	0	0	0
Leptocylindrus minimus	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	20
Lycmophora lyngbyei	40	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Melosira ambigua	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Melosira sp.	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0
Navicula sp.	0	20	0	20	20	0	0	0	20	0	0	20	20	20	20	20	0
Nitzschia closterium	200	280	280	260	120	280	240	260	440	220	260	120	220	340	40	300	80
Nitzschia pseudodelicatissima	200	200	220	240	80	140	520	240	160	60	520	300	200	680	300	300	20
Paralia sulcata	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0
Pleurosigma angulatum	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0
Rhabdonema arcuatum	0	0	0	0	0	0	20	0	20	0	0	0	0	0	0	0	0
Rhizosolenia delicatula	0	0	0	0	0	0	0	0	0	40	0	20	0	20	0	0	0
Rhizosolenia setigera	0	40	0	0	0	20	0	0	0	0	0	20	0	0	0	0	40
Skeletonema costatum	0	0	0	20	0	0	0	0	0	0	20	60	0	0	0	0	0
Tabellaria sp.	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thalassiosira condensata	0	0	0	0	0	0	0	20	20	0	0	0	0	0	0	0	0
Thalassiosira gravida	0	40	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0
Thalassiosira nordenskioeldii	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20	0	0
Thalassiosira sp.	0	0	0	20	0	0	0	0	20	0	0	0	0	0	20	0	0
Thalassiothrix nitzschiodes	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Distephanus speculum	0	20	0	0	0	0	0	0	0	0	20	0	20	20	0	0	0
Eutreptia sp.	0	0	20	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Mesodinium rubrum	120	160	0	100	60	20	20	80	140	0	20	0	80	0	20	120	0
Tintinnids	0	20	0	20	20	0	0	0	20	0	0	120	0	40	20	0	160

DATE: 07-02-89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Ceratium fusus	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Gyrodinium sp.	0	0	0	0	0	60	40	0	0	20	0	0	0	80	80	0	20
Peridinium sp.	0	20	0	0	0	20	0	0	0	0	20	0	0	0	0	0	0
Biddulphia obtusa	20	20	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0
Chaetoceros decipiens	0	0	20	0	0	0	0	0	0	0	20	0	40	0	0	20	0
Chaetoceros sp.	0	0	0	0	20	0	0	0	0	20	0	0	0	20	0	0	0
Corethron criophilum	0	0	0	0	0	0	0	0	20	0	0	0	20	0	0	0	0
Coscinodiscus sp.	0	20	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0
Ditylum brightwelli	0	0	0	0	20	0	0	0	0	0	20	0	0	0	0	0	0
Gyrosigma fasciola	20	0	0	0	0	0	0	0	0	0	0	180	0	0	0	20	20
Leptocylindrus minimus	0	0	20	40	0	20	0	20	20	0	0	0	0	0	0	0	0
Melosira ambigua	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Navicula sp.	40	60	20	80	80	20	60	40	60	140	80	20	160	60	0	40	40
Nitzschia closterium	140	20	140	80	140	120	240	100	560	40	240	0	60	500	460	120	140
Nitzschia pseudodelicatissima	80	40	280	520	800	1580	1140	180	1820	60	1320	300	420	1600	3100	540	200
Pleurosigma angulatum	0	0	0	0	0	20	40	20	20	0	0	0	20	0	0	20	20
Pleurosigma sp.	0	0	0	0	0	0	0	20	0	0	0	20	0	0	0	0	0
Pleurosigma strigosum	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Rhizosolenia delicatula	0	20	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0
Rhizosolenia setigera	0	20	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Skeletonema costatum	0	40	20	0	0	0	40	0	0	0	0	20	20	60	20	0	0
Thalassiosira decipiens	0	0	0	20	0	0	0	0	0	0	40	0	0	0	80	20	0
Thalassiosira sp.	0	0	0	0	0	40	40	0	0	0	0	0	20	0	0	0	0
Thalassiothrix nitzschiodes	0	0	0	40	20	40	0	0	0	0	0	0	0	0	0	0	20
Acartia sp.	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0
Distephanus speculum	0	0	40	0	0	20	0	20	20	20	0	20	0	0	20	0	0
Euglena sp.	0	20	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eutreptia sp.	0	0	0	0	0	0	0	20	0	0	20	0	0	0	60	20	0
Mesodinium rubrum	400	180	400	220	80	260	340	60	60	260	100	40	100	40	640	120	300
Parafavella sp.	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Tintinnids	100	40	80	40	40	500	100	20	180	20	20	0	100	160	840	20	120

DATE: 21- 03- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	0	20	0	0	0	0	0		0		0	0	0	0			0
Dinophysis norvegica	0	0	0	20	0	0	0		0		0	0	0	0			0
Gyrodinium sp.	40	0	0	0	40	20	20		0		40	0	0	60			0
Peridinium sp.	0	0	0	0	20	20	40		0		0	40	0	0			0
Achnanthes sp.	0	0	0	0	0	20	0		0		20	0	0	0			0
Actinoptychus undulatus	40	20	0	0	0	0	60		0		0	0	0	0			0
Biddulphia aurita	0	20	0	0	0	0	60		20		0	20	0	0			0
Biddulphia obtusa	0	60	0	40	0	80	0		0		0	0	0	80			0
Chaetoceros decipiens	0	0	0	20	40	0	0		0		0	0	0	0			0
Chaetoceros sp.	0	20	20	80	60	160	40		40		0	0	20	20			40
Corethron criophilum	0	0	0	0	60	0	0		0		20	0	0	0			0
Coscinodiscus sp.	0	0	20	0	20	0	0		0		0	0	0	0			0
Fragilaria oceanica	0	0	0	0	0	20	60		0		0	0	0	0			0
Gyrosigma fasciola	0	0	0	0	0	0	20		0		0	0	40	0			0
Gyrosigma sp.	0	0	0	0	0	20	0		0		60	0	0	0			0
Leptocylindrus minimus	0	0	0	20	0	0	20		0		40	0	0	20			0
Lycmophora lyngbyei	20	20	0	0	40	0	40		0		0	0	0	0			0
Melosira ambigua	20	0	0	0	0	0	0		0		0	0	0	0			0
Melosira monoliformis	0	0	0	0	0	40	0		0		0	0	0	0			0
Navicula sp.	0	80	80	80	120	20	60		80		0	80	20	40			120
Nitzschia closterium	80	40	20	40	140	20	60		0		60	0	20	140			180
Nitzschia pseudodelicatissima	880	400	200	620	60	1700	840		60		1180	0	520	1040			1500
Pleurosigma angulatum	0	20	0	20	20	0	0		0		20	0	0	0			40
Pleurosigma sp.	0	20	20	0	20	20	0		20		0	0	0	0			0
Rhabdonema arcuatum	0	0	0	0	0	20	20		0		0	0	0	0			0
Rhizosolenia setigera	0	20	0	0	0	0	0		0		0	0	0	0			60
Skeletonema costatum	0	40	0	20	100	160	40		20		40	0	0	40			20
Thalassiosira decipiens	0	20	0	40	80	140	40		0		20	0	0	80			0
Thalassiosira gravida	0	40	0	0	20	0	0		0		0	0	0	20			20
Thalassiosira nordenskioeldii	20	80	0	0	20	60	0		0		40	0	0	20			0
Thalassiosira sp.	20	40	0	0	20	20	0		0		0	0	0	0			0
Distephanus speculum	0	0	20	0	20	40	0		0		40	0	0	0			0
Euglena sp.	0	0	20	60	0	0	0		0		0	0	20	0			0
Eutreptia sp.	60	0	0	40	100	20	0		0		60	0	0	0			40
Mesodinium rubrum	160	160	240	60	140	20	100		160		0	0	80	40			20
Tintinnids	100	20	40	0	420	400	20		0		140	0	20	120			100

DATE: 12-04-89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Biddulphia aurita			240												20	0	380
Biddulphia obtusa			160												400	60	0
Biddulphia sp.			100												0	0	20
Chaetoceros decipiens			20												0	0	0
Chaetoceros sp.			100												100	120	0
Fragilaria oceanica			80												0	0	140
Grammatophora marina			20												0	0	0
Gyrosigma fasciola			20												0	0	0
Lycmophora lyngbyei			160												80	0	120
Melosira monoliformis			260												220	100	480
Melosira sp.			20												0	0	20
Navicula sp.			60												80	40	140
Nitzschia closterium			100												140	0	40
Nitzschia pseudodelicatissima			260												1360	200	0
Rhabdonema arcuatum			20												0	0	40
Skeletonema costatum			20												20	20	0
Thalassiosira decipiens			20												160	0	0
Distephanus speculum			20												40	20	0
Mesodinium rubrum			40												0	0	180
Tintinnids			20												20	0	100

DATE: 25- 04- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Gyrodinium sp.			40												20	0	0
Biddulphia sp.			20												0	0	0
Chaetoceros debilis			40												0	40	0
Chaetoceros sp.			20												0	80	20
Coscinodiscus sp.			60												20	20	20
Fragilaria oceanica			60												0	0	0
Gyrosigma baltica			20												0	0	0
Lycmophora lyngbyei			40												0	20	0
Melosira monoliformis			80												20	0	0
Navicula sp.			160												0	100	160
Nitzschia closterium			140												0	140	40
Nitzschia pseudodelicatissima			420												640	860	60
Skeletonema costatum			120												120	160	0
Thalassiosira condensata			80												0	0	0
Thalassiosira decipiens			80												20	40	0
Thalassiosira sp.			20												0	40	0
Eutreptia sp.			60												0	200	0
Mesodinium rubrum			100												180	100	260
Tintinnids			100												40	580	0

DATE: 10- 05- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Gyrodinium sp.			120												0	260	40
Peridinium sp.			20												100	260	60
Chaetoceros debilis			160												100	1280	80
Chaetoceros decipiens			20												20	0	20
Chaetoceros socialis			60												100	1060	0
Chaetoceros sp.			300												320	80	200
Coscinodiscus sp.			60												60	0	60
Coscinosira polychorda			20												0	0	0
Leptocylindrus minimus			40												20	0	0
Melosira ambigua			20												0	0	0
Melosira monoliformis			80												0	0	0
Navicula sp.			100												0	80	80
Nitzschia closterium			120												60	60	60
Nitzschia pseudodelicatissima			720												1480	1980	100
Skeletonema costatum			40												60	80	80
Thalassiosira decipiens			140												100	120	40
Thalassiosira gravida			40												0	20	80
Thalassiosira nordenskioeldii			460												120	1060	320
Thalassiosira sp.			200												60	140	0
Eutreptia sp.			400												140	780	100
Favella sp.			20												0	0	0
Mesodinium rubrum			2540												3360	2600	140
Tintinnids			320												26680	640	36640

DATE: 24- 05- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense			60												500	20	340
Alexandrium (duplet)			20												0	0	0
Gyrodinium sp.			300												240	180	0
Peridinium conicum			20												0	0	0
Peridinium sp.			200												160	240	20
Peridinium triqueta			20												20	40	40
Scrippsiella trochoidea			20												80	0	0
Actinoptychus undulatus			20												0	0	0
Biddulphia obtusa			40												0	0	0
Chaetoceros debilis			580												40	1500	980
Chaetoceros decipiens			100												0	100	80
Chaetoceros laciniosus			60												0	0	20
Chaetoceros socialis			280												0	0	0
Fragilaria oceanica			40												20	0	0
Leptocylindrus minimus			20												0	60	0
Melosira monoliformis			420												40	0	0
Melosira sp.			40												0	60	0
Navicula sp.			20												20	40	40
Nitzschia closterium			40												0	180	20
Nitzschia pseudodelicatissima			60												20	160	320
Thalassiosira decipiens			40												20	40	460
Thalassiosira nordenskioeldii			800												40	3860	2460
Distephanus speculum			40												60	100	0
Euglena sp.			40												60	0	0
Eutreptia sp.			41740												25560	2540	20
Favella sp.			20												0	0	0
Mesodinium rubrum			1000												2140	640	1500
Tintinnids			2080												2240	540	240

DATE: 07-06-89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Gyrodinium sp.			200												200	40	80
Peridinium triqueta			140												0	0	0
Scrippsiella trochoidea			60												200	40	0
Chaetoceros compressus			60												0	0	520
Chaetoceros debilis			2940												2340	1120	4580
Chaetoceros decipiens			200												0	120	80
Chaetoceros furcellatus			200												140	840	1300
Chaetoceros sp.			1340												3260	7600	3000
Nitzschia closterium			140												1140	320	40
Nitzschia pseudodelicatissima			60												800	360	40
Skeletonema costatum			140												60	0	880
Thalassiosira decipiens			660												740	400	20
Thalassiosira gravida			60												0	0	60
Thalassiosira nordenskioeldii			3920												7060	24280	3460
Distephanus speculum			140												200	120	0
Helicostomella sp.			60												0	0	20
Mesodinium rubrum			400												60	120	1340
Tintinnids			60												5120	280	360

DATE: 14- 06- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense			520												840	280	240
Alexandrium (duplet)			80												160	80	0
Dinophysis norvegica			40												0	0	0
Gonyaulax triacantha			40												40	0	0
Gyrodinium sp.			80												160	80	80
Peridinium sp.			600												840	520	160
Peridinium triqueta			240												440	0	40
Chaetoceros compressus			840												320	0	1200
Chaetoceros constrictus			80												320	0	120
Chaetoceros convolutus			80												80	0	0
Chaetoceros debilis			2920												3040	2640	640
Chaetoceros decipiens			80												80	0	120
Chaetoceros furcellatus			480												80	720	760
Chaetoceros sp.			1160												400	1920	840
Chaetoceros teres			80												0	20	280
Coscinodiscus sp.			40												40	0	0
Gyrosigma littorale			40												0	0	0
Leptocylindrus danicus			40												0	0	0
Leptocylindrus minimus			40												0	80	80
Melosira nummuloides			40												0	0	0
Nitzschia closterium			920												40	1200	160
Nitzschia pseudodelicatissima			160												120	2040	120
Skeletonema costatum			240												400	520	7320
Thalassiosira decipiens			360												200	1680	120
Thalassiosira nordenskioeldii			3800												1520	3560	1120
Thalassiosira sp.			160												240	40	0
Brachionus sp.			40												40	0	0
Mesodinium rubrum			2440												5760	2120	1400
Parafavella sp.			160												80	0	0
Ptychocylis sp.			40												0	0	0
Tintinnids			400												360	920	1240

DATE: 21- 06- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense			4000												2600	1060	320
Alexandrium (duplet)			500												300	120	40
Dinophysis norvegica			100												300	0	0
Gonyaulax spinifera			100												0	0	0
Peridinium sp.			700												800	1200	160
Peridinium triqueta			200												1200	1060	80
Scrippsiella trochoidea			300												400	0	0
Chaetoceros compressus			1700												1200	1200	520
Chaetoceros constrictus			1600												2000	1720	0
Chaetoceros convolutus			700												800	1080	0
Chaetoceros debilis			2200												3200	6800	2360
Chaetoceros laciniosus			100												400	280	0
Chaetoceros sp.			600												4400	13720	80
Chaetoceros teres			100												0	120	0
Coscinosira polychorda			300												800	920	0
Leptocylindrus minimus			400												1600	1320	120
Navicula sp.			100												0	0	40
Nitzschia closterium			500												2000	5200	40
Nitzschia pseudodelicatissima			1500												11500	24920	440
Rhizosolenia fragillima			100												500	680	0
Skeletonema costatum			2400												3700	8640	2840
Thalassiosira decipiens			2700												3900	4680	0
Thalassiosira nordenskioeldii			16500												19600	30520	0
Eutreptia sp.			200												700	400	80
Helicostomella sp.			100												300	0	40
Mesodinium rubrum			3100												2700	0	720
Tintinnids			300												100	660	40

DATE: 28- 06- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense			10500												5860	13600	1720
Alexandrium (duplet)			1800												660	400	200
Alexandrium (triplet)			100												0	0	0
Dinophysis norvegica			100												0	0	0
Gyrodinium sp.			100												140	200	0
Peridinium conicum			100												0	0	0
Peridinium sp.			16300												2860	6000	520
Peridinium triqueta			1200												1540	2600	600
Scrippsiella trochoidea			2000												740	1400	400
Biddulphia obtusa			100												0	0	0
Chaetoceros convolutus			700												660	200	40
Chaetoceros debilis			2800												2000	3200	1600
Chaetoceros decipiens			200												200	200	0
Chaetoceros laciniosus			600												0	0	40
Chaetoceros sp.			7400												6320	10200	40
Chaetoceros teres			200												0	0	0
Coscinodiscus sp.			100												0	0	0
Coscinosira polychorda			200												460	1400	40
Leptocylindrus minimus			2100												860	1000	280
Melosira sp.			100												0	0	0
Nitzschia closterium			8400												1460	3800	440
Nitzschia pseudodelicatissima			54400												33840	54600	520
Rhizosolenia delicatula			800												60	0	0
Rhizosolenia fragillima			100												260	200	80
Rhizosolenia hebetata			500												0	0	0
Rhizosolenia sp.			100												0	0	0
Skeletonema costatum			13300												16780	25000	600
Thalassiosira decipiens			11400												3320	5600	80
Thalassiosira nordenskioeldii			16100												7000	5000	0
Acartia sp.			200												0	0	0
Distephanus speculum			100												0	200	0
Eutreptia sp.			100												0	600	0
Helicostomella sp.			300												340	200	560
Mesodinium rubrum			10900												2200	12000	8720
Tintinnids			2200												460	0	0

DATE: 04-07-89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense			2600												5200	2900	300
Alexandrium (duplet)			400												1800	500	0
Alexandrium (quadruplet)			200												0	100	0
Dinophysis norvegica			200												0	0	100
Peridinium sp.			3600												7800	5700	800
Scrippsiella trochoidea			200												1000	1000	400
Chaetoceros debilis			2600												8600	2900	14000
Chaetoceros decipiens			200												400	100	0
Chaetoceros laciniosus			600												1200	400	100
Chaetoceros simplex			200												0	0	0
Chaetoceros sp.			7200												18000	6300	400
Coscinosira polychorda			600												1400	300	100
Detonula cystifera			5600												6400	3900	100
Leptocylindrus minimus			5200												2200	1800	600
Nitzschia closterium			12600												6400	8200	1400
Nitzschia pseudodelicatissima			106400												424320	82200	1700
Rhizosolenia fragillima			1200												800	800	0
Skeletonema costatum			13000												30000	9500	900
Thalassiosira condensata			400												0	0	0
Thalassiosira decipiens			10000												19800	8400	300
Acartia sp.			200												0	0	100
Euglena sp.			200												0	0	0
Eutreptia sp.			200												0	100	0
Helicostomella sp.			400												400	300	200
Mesodinium rubrum			4000												1200	1300	2300
Tintinnids			2000												2400	1200	4600

DATE: 12- 07- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense			4700												560	39700	0
Alexandrium (duplet)			380												80	2500	0
Alexandrium (quadruplet)			20												0	0	0
Alexandrium (triplet)			60												0	800	0
Ceratium longipes			20												0	0	0
Ceratium minutum			100												0	0	0
Dinophysis acuminata			100												0	400	40
Dinophysis norvegica			40												0	300	40
Gonyaulax triacantha			40												0	100	0
Gyrodinium sp.			60												280	1700	560
Peridinium conicum			20												40	0	0
Peridinium sp.			1160												1240	7600	180
Peridinium triqueta			280												440	3400	0
Scrippsiella trochoidea			380												120	2400	0
Biddulphia aurita			20												0	0	0
Chaetoceros constrictus			20												0	100	0
Chaetoceros debilis			320												0	1600	3160
Chaetoceros decipiens			80												0	300	0
Chaetoceros laciniosus			20												480	800	0
Chaetoceros sp.			120												800	1200	480
Coscinosira polychorda			80												440	700	0
Detonula cystifera			180												3040	200	500
Fragilaria oceanica			20												0	0	0
Gyrosigma fasciola			20												0	0	0
Leptocylindrus minimus			80												240	0	1000
Lycmophora lyngbyei			60												40	0	0
Nitzschia closterium			160												4240	800	4420
Nitzschia pseudodelicatissima			180												1960	0	2940
Rhizosolenia delicatula			60												0	0	0
Rhizosolenia fragillima			140												2000	2900	100
Rhizosolenia hebetata			20												0	0	20
Skeletonema costatum			20												200	0	2400
Thalassiosira baltica			20												0	0	0
Thalassiosira decipiens			160												480	400	360
Thalassiosira gravida			60												0	0	0
Thalassiosira sp.			120												0	0	20
Brachionus sp.			20												0	0	20
Euglena sp.			60												40	0	20
Eutreptia sp.			60												40	0	0
Favella sp.			20												0	200	0
Helicostomella sp.			100												40	200	60
Mesodinium rubrum			4080												600	5100	5040
Tintinnids			820												560	1200	1980

DATE: 18- 07- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense			44500												162740	57400	0
Alexandrium (duplet)			2500												9380	2200	0
Alexandrium (fusing)			200												0	200	0
Alexandrium (planozygote)			200												3400	400	0
Alexandrium (quadruplet)			300												860	500	0
Alexandrium (triplet)			300												0	1000	0
Ceratium minutum			100												320	0	0
Dinophysis acuminata			100												160	1000	0
Gonyaulax spinifera			200												440	100	0
Gonyaulax triacantha			100												0	100	0
Gyrodinium sp.			300												1640	1000	1000
Peridinium sp.			600												5160	1000	800
Peridinium triqueta			100												1040	900	0
Scrippsiella trochoidea			1300												2000	1600	0
Biddulphia aurita			100												0	0	0
Chaetoceros debilis			200												320	600	7600
Chaetoceros decipiens			200												0	0	0
Chaetoceros sp.			200												360	0	6600
Corethron criophilum			100												0	0	0
Coscinosira polychorda			400												40	800	0
Leptocylindrus minimus			100												80	100	15200
Nitzschia closterium			400												520	0	42000
Nitzschia pseudodelicatissima			600												160	300	40800
Pleurosigma angulatum			100												0	0	0
Rhizosolenia delicatula			200												0	0	0
Skeletonema costatum			300												0	0	30000
Euglena sp.			100												0	100	0
Eutreptia sp.			200												0	100	0
Favella sp.			200												160	200	0
Helicostomella sp.			300												240	0	200
Mesodinium rubrum			2000												4360	4100	400
Tintinnids			900												1920	300	4800

DATE: 26- 07- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense			540												1960	8860	100
Alexandrium (duplet)			100												20	1120	0
Ceratium minutum			100												60	160	100
Dinophysis acuminata			40												160	680	200
Dinophysis norvegica			60												80	200	0
Gyrodinium sp.			460												180	720	1000
Peridinium sp.			1440												80	10960	400
Peridinium triqueta			80												0	320	100
Cerataulina pelagica			20												0	0	400
Chaetoceros debilis			40												80	80	2500
Chaetoceros diadema			20												0	0	0
Chaetoceros sp.			100												60	480	600
Detonula cystifera			20												0	0	100
Fragilaria oceanica			80												0	0	100
Leptocylindrus minimus			1240												260	1520	195840
Lycmophora lyngbyei			40												40	0	100
Melosira moniliformis			20												0	0	0
Melosira sp.			20												0	40	100
Navicula sp.			20												0	0	0
Nitzschia closterium			640												20	1160	7900
Nitzschia pseudodelicatissima			1220												560	5120	12800
Rhizosolenia fragillima			60												0	0	1300
Skeletonema costatum			100												0	0	0
Thalassiosira decipiens			40												0	0	300
Acartia sp.			20												60	0	0
Distephanus speculum			280												60	360	200
Eutreptia sp.			4660												40	360	200
Favella sp.			260												140	280	0
Helicostomella sp.			100												60	0	200
Mesodinium rubrum			1640												2060	880	1800
Tintinnids			1940												280	2000	400

DATE: 02- 08- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense			2520												8220	10560	0
Alexandrium (duplet)			40												100	920	0
Ceratium longipes			160												80	160	0
Ceratium minutum			140												140	560	0
Dinophysis acuminata			160												40	280	0
Dinophysis norvegica			100												40	240	20
Dinophysis sp.			40												0	0	0
Gonyaulax spinifera			20												140	360	0
Gyrodinium sp.			380												300	760	20
Peridinium sp.			400												1580	12040	0
Peridinium triqueta			180												960	840	0
Scrippsiella trochoidea			20												0	40	0
Cerataulina pelagica			40												20	0	120
Chaetoceros debilis			20												20	40	160
Chaetoceros sp.			40												200	80	20
Coscinodiscus sp.			20												0	0	0
Coscinosira polychorda			20												0	80	0
Detonula cystifera			20												0	0	0
Fragilaria oceanica			20												0	0	0
Leptocylindrus danicus			20												0	0	0
Leptocylindrus minimus			200												1100	280	220
Nitzschia closterium			140												180	1200	540
Nitzschia pseudodelicatissima			860												520	1520	40
Nitzschia pungens			40												20	0	0
Rhizosolenia delicatula			60												60	0	20
Skeletonema costatum			140												0	320	40
Thalassiothrix longissima			40												0	0	0
Distephanus speculum			60												580	680	160
Eutreptia sp.			40												140	0	140
Favella sp.			240												800	520	0
Helicostomella sp.			220												140	480	40
Mesodinium rubrum			2540												1860	3040	160
Parafavella sp.			20												0	0	0
Tintinnids			720												100	6200	160

DATE: 09- 08- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	20		0		0		40	0	100		0		0	80	0	40	0
Ceratium longipes	0		60		0		120	160	400		60		0	0	100	60	0
Ceratium minutum	140		120		220		120	640	1000		140		120	220	520	80	60
Dinophysis acuminata	80		80		140		60	800	120		120		280	660	160	40	180
Dinophysis norvegica	120		80		40		60	160	320		20		100	260	60	0	40
Dinophysis rotundata	0		0		0		0	0	20		0		0	0	0	0	0
Dinophysis sp.	0		20		0		0	40	0		0		0	0	0	0	0
Gonyaulax spinifera	160		80		40		140	0	620		20		0	0	300	240	0
Gonyaulax triacantha	0		0		0		0	0	40		0		0	0	0	0	0
Gyrodinium sp.	20		100		140		40	560	560		60		280	120	80	20	500
Peridinium conicum	0		0		0		20	0	20		0		40	20	0	0	20
Peridinium denticulatum	0		0		40		0	0	0		0		0	0	0	0	0
Peridinium sp.	60		280		400		200	260	660		120		140	300	260	880	140
Peridinium triqueta	80		240		0		160	100	500		0		40	0	140	520	20
Phalacroma pulchellum	0		0		0		0	20	20		0		0	0	0	0	0
Scrippsiella trochoidea	60		40		0		40	0	240		0		0	40	80	400	60
Chaetoceros debilis	0		0		0		60	0	0		40		20	20	0	0	60
Chaetoceros sp.	0		0		0		20	20	0		440		100	300	0	0	940
Ditylum brightwelli	0		0		0		60	0	0		80		0	0	0	0	0
Fragilaria oceanica	0		0		0		0	20	0		0		0	0	0	0	0
Gyrosigma littorale	0		0		0		0	0	20		0		0	0	0	0	0
Leptocylindrus minimus	0		60		100		40	40	20		560		100	60	0	0	160
Lycmophora lyngbyei	0		0		0		0	80	0		40		20	60	0	0	0
Melosira ambigua	0		60		0		0	0	0		0		0	0	0	0	0
Nitzschia closterium	0		60		240		20	60	0		780		560	160	0	40	2240
Nitzschia pseudodelicatissima	0		80		100		40	0	0		240		40	20	0	20	180
Pleurosigma angulatum	0		0		0		40	0	0		20		20	20	0	0	20
Pleurosigma sp.	0		0		0		20	0	20		0		0	0	0	0	0
Rhizosolenia delicatula	0		20		20		20	0	0		420		180	60	0	0	380
Acartia sp.	0		20		20		0	0	20		0		0	20	60	0	40
Brachionus sp.	0		0		20		20	0	0		0		0	0	0	0	0
Distephanus speculum	20		220		80		560	200	140		6260		1520	23580	100	120	8520
Euglena sp.	20		0		0		20	0	0		0		0	20	0	0	0
Eutreptia sp.	360		5580		100		46000	80	20		200		60	80	40	0	14560
Favella sp.	0		0		20		20	40	100		0		0	0	60	40	0
Helicostomella sp.	120		0		340		140	100	1060		80		120	1280	40	20	220
Mesodinium rubrum	1900		260		1400		800	360	1580		0		640	4420	1220	2660	6040
Tintinnids	0		920		2720		40	380	680		320		820	1820	60	60	2320

DATE: 17- 08- 89 DEPTH: SURFACE

STATION NUMBERS / ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Alexandrium fundyense	0		0		0		0	20	0		0		0	0	0	0	0
Ceratium fusus	0		20		0		0	20	20		0		0	0	0	0	0
Ceratium longipes	60		80		120		140	180	160		80		100	120	120	220	80
Ceratium minutum	1660		960		1060		600	1760	3700		100		600	280	420	740	1820
Dinophysis acuminata	160		380		160		180	420	320		120		240	240	60	340	1220
Dinophysis acuta	0		0		0		0	0	20		0		0	0	0	0	0
Dinophysis norvegica	380		140		160		60	360	280		60		100	80	20	60	140
Dinophysis rotundata	20		0		0		60	0	0		0		0	0	0	0	40
Dinophysis sp.	0		0		0		0	80	0		0		0	0	40	20	20
Gonyaulax spinifera	1340		520		240		240	700	900		20		120	40	1380	900	160
Gyrodinium sp.	20		20		60		20	0	0		0		20	40	0	80	80
Peridinium ovatum	0		0		0		0	0	20		0		0	0	0	0	0
Peridinium sp.	980		240		180		460	880	720		60		240	240	120	1740	800
Peridinium triqueta	460		120		80		280	1040	700		0		60	40	100	2720	80
Phalacroma pulchellum	0		0		0		0	20	0		0		20	0	0	0	0
Scrippsiella trochoidea	60		0		20		40	20	0		0		0	0	0	140	0
Actinoptychus undulatus	0		20		0		0	0	20		0		0	0	0	0	0
Biddulphia aurita	0		0		0		0	0	80		0		0	0	0	0	0
Biddulphia obtusa	0		20		0		0	0	0		0		0	0	0	0	0
Cerataulina pelagica	0		0		0		40	0	0		120		300	120	0	0	0
Chaetoceros laciniosus	0		0		0		0	20	0		60		20	40	0	0	20
Chaetoceros sp.	0		0		0		0	0	20		300		20	240	0	0	20
Coscinodiscus sp.	0		20		0		20	0	0		20		0	0	0	0	0
Ditylum brightwelli	20		40		0		0	0	0		0		20	0	0	20	0
Gyrosigma fasciola	0		0		0		0	0	20		0		0	0	20	0	0
Gyrosigma sp.	0		0		0		20	0	0		0		0	0	0	0	0
Leptocylindrus minimus	0		20		80		100	80	0		200		40	320	0	160	60
Lycmophora lyngbyei	0		0		0		40	0	20		40		0	0	0	0	0
Melosira sp.	0		0		0		0	0	20		0		0	0	0	0	0
Nitzschia closterium	20		180		280		540	20	0		0		0	560	60	260	380
Nitzschia pseudodelicatissima	180		600		200		640	240	20		420		140	200	0	360	20
Pleurosigma angulatum	0		20		0		120	0	20		60		80	0	0	0	60
Pleurosigma sp.	20		20		0		20	0	0		20		0	0	0	0	0
Rhizosolenia delicatula	0		20		0		20	0	0		140		60	200	40	140	40
Skeletonema costatum	40		20		0		60	40	0		9120		120	1080	0	120	0
Thalassiosira gravida	0		0		20		0	0	0		0		0	0	0	0	20
Thalassiothrix longissima	0		0		0		0	20	0		0		0	0	0	0	0
Thalassiothrix nitzschiodes	0		40		0		40	20	20		100		0	80	0	0	0
Acartia sp.	0		0		20		40	0	0		20		0	40	40	100	0
Brachionus sp.	20		0		0		0	0	20		0		0	0	0	0	0
Distephanus speculum	340		580		380		22840	480	300		6760		27540	46000	240	12520	10780
Euglena sp.	0		0		80		0	20	20		0		0	0	0	0	0

STATION NUMBERS																	
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Eutreptia sp.	420		0		80		1560	100	100		400		120	440	0	140	280
Helicostomella sp.	80		80		20		80	360	240		60		0	40	20	80	300
Mesodinium rubrum	19140		3820		2920		640	5280	13300		280		3440	2480	460	3740	561400
Tintinnids	0		560		120		1980	80	200		380		420	1040	0	40	280

DATE: 23- 08- 89 DEPTH: SURFACE

STATION NUMBERS																	
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Alexandrium fundyense	0		0		0		0	0	20		20		0	0	0	0	0
Ceratium fusus	0		0		0		0	0	20		0		0	0	0	0	0
Ceratium longipes	0		40		100		20	80	200		0		0	80	60	80	660
Ceratium minutum	1080		1300		1580		600	7000	5380		720		360	2800	800	4140	1740
Dinophysis acuminata	140		60		180		40	560	760		80		40	360	40	200	200
Dinophysis norvegica	60		120		180		60	400	660		60		60	80	100	80	160
Dinophysis rotundata	0		0		0		0	0	40		20		0	0	0	0	0
Dinophysis sp.	0		60		40		20	0	40		0		0	0	40	0	100
Gonyaulax spinifera	280		400		40		320	1600	1960		100		40	200	120	4820	140
Gonyaulax triacantha	0		0		0		0	0	20		20		0	0	0	20	0
Gyrodinium sp.	20		20		20		40	120	60		20		0	80	40	20	0
Peridinium conicum	0		0		0		0	40	0		0		0	0	0	0	0
Peridinium sp.	240		140		200		200	1960	2800		60		20	160	60	2060	160
Peridinium triqueta	0		20		120		320	2440	2200		20		0	0	60	580	80
Scrippsiella trochoidea	20		0		40		20	440	320		0		0	0	0	140	20
Cerataulina pelagica	20		0		40		20	0	80		0		0	160	0	320	20
Chaetoceros compressus	0		0		20		0	0	0		0		0	0	0	0	0
Chaetoceros constrictus	0		0		0		20	0	40		20		20	0	0	0	0
Chaetoceros debilis	0		0		20		20	0	0		40		20	0	0	0	0
Chaetoceros decipiens	0		0		20		0	0	0		60		60	40	0	0	0
Chaetoceros laciniosus	0		0		0		0	0	40		0		20	0	0	20	20
Chaetoceros sp.	0		0		0		60	0	40		40		80	360	0	80	20
Ditylum brightwelli	0		0		0		0	0	40		0		0	0	0	40	0
Fragilaria sp.	20		0		0		0	0	0		0		0	40	40	20	0
Gyrosigma littorale	0		0		0		0	0	20		0		0	0	0	0	0
Gyrosigma sp.	20		0		0		0	0	0		0		0	0	0	0	0
Leptocylindrus danicus	0		0		0		0	0	20		0		80	0	0	0	0
Leptocylindrus minimus	20		20		20		60	80	60		20		140	320	20	400	60
Lycmophora lyngbyei	0		0		0		60	0	120		20		20	80	0	0	0
Nitzschia closterium	140		0		80		120	120	80		160		60	1000	80	120	80
Nitzschia pseudodelicatissima	380		40		80		100	680	820		100		160	520	60	1580	20

STATION NUMBERS																
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Pleurosigma angulatum	0		20		20		40	0	0		20		0	40	0	0	40
Pleurosigma strigosum	0		0		0		20	0	0		0		0	0	0	0	0
Rhizosolenia delicatula	20		20		60		60	40	100		60		60	160	0	100	80
Skeletonema costatum	20		20		180		60	0	180		1120		80	880	0	1580	120
Thalassiosira gravida	0		20		0		0	0	0		20		20	0	0	0	0
Thalassiothrix nitzschiodes	40		0		20		0	80	0		20		0	0	0	0	0
Acartia sp.	60		0		0		0	40	0		0		0	0	80	0	0
Brachionus sp.	0		0		0		20	0	0		0		0	0	0	0	0
Distephanus speculum	400		80		200		1340	880	900		220		340	680	720	2720	540
Eutreptia sp.	80		0		0		5320	0	40		1920		100	120	40	80	60
Helicostomella sp.	140		40		40		160	960	760		60		80	480	20	40	980
Mesodinium rubrum	1080		1520		1040		2680	33220	9360		2580		460	2040	900	6080	2700
Tintinnids	3760		20		200		100	2120	300		80		80	5360	20	260	160

DATE: 30- 08- 89 DEPTH: SURFACE

STATION NUMBERS																	
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Ceratium longipes	20		40		20		40	0	20		20		40	80	60	160	20
Ceratium minutum	1280		1400		860		860	2020	2480		280		820	2300	3460	4040	20
Dinophysis acuminata	40		0		60		440	400	240		20		340	100	80	300	420
Dinophysis acuta	20		0		0		0	0	20		0		0	20	20	0	0
Dinophysis norvegica	40		80		80		80	120	60		0		60	100	240	300	20
Dinophysis rotundata	0		0		0		0	20	20		0		0	40	20	20	0
Dinophysis sp.	0		80		0		0	0	40		0		0	20	80	40	80
Gonyaulax spinifera	20		20		20		0	0	60		20		0	0	60	100	0
Gonyaulax triacantha	0		0		0		0	0	20		0		0	0	0	0	0
Gyrodinium aureolum	0		0		20		0	0	0		0		0	0	0	0	0
Gyrodinium sp.	0		20		0		100	40	0		0		100	140	0	60	0
Peridinium sp.	220		580		60		100	160	260		40		40	120	140	1060	580
Peridinium triqueta	0		20		0		0	0	60		0		0	0	140	280	0
Scrippsiella trochoidea	0		80		0		0	100	0		0		0	0	0	60	0
Actinoptychus undulatus	0		0		20		0	0	0		0		0	20	0	0	0
Cerataulina pelagica	0		0		40		0	340	40		60		0	0	0	40	0
Chaetoceros debilis	0		0		20		0	0	0		20		0	20	40	40	0
Chaetoceros laciniosus	0		0		0		0	40	40		20		0	0	0	0	40
Chaetoceros simplex	0		0		0		0	0	20		0		0	40	0	0	40
Chaetoceros socialis	0		0		0		0	0	40		0		0	0	0	0	20
Chaetoceros sp.	0		0		20		20	140	20		120		40	80	180	20	180

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Corethron criophilum	0		20		0		0	0	0		40		0	60	0	20	40
Coscinodiscus sp.	0		0		40		0	0	0		0		0	0	0	0	20
Ditylum brightwelli	0		20		40		40	20	0		0		60	0	0	60	0
Fragilaria sp.	0		0		0		0	20	0		0		0	20	0	100	0
Guinardia flaccida	0		0		0		420	0	20		100		440	140	0	0	160
Gyrosigma littorale	0		0		0		0	0	20		0		0	0	0	0	0
Gyrosigma tennuissimum	0		20		0		0	0	0		0		0	0	0	0	0
Leptocylindrus danicus	20		0		0		0	0	0		0		0	0	0	0	20
Leptocylindrus minimus	0		140		40		80	120	200		60		100	140	180	100	960
Lycmophora lyngbyei	0		0		0		20	40	100		0		0	40	20	0	0
Nitzschia closterium	140		40		60		180	240	220		160		320	180	40	180	680
Nitzschia pseudodelicatissima	280		160		200		300	1240	820		260		560	80	20	360	40
Nitzschia pungens	0		20		20		0	40	0		0		0	0	0	0	40
Pleurosigma angulatum	0		0		20		20	0	0		0		40	0	0	0	0
Pleurosigma sp.	0		0		0		0	0	20		0		0	20	0	0	0
Rhizosolenia delicatula	80		500		180		760	320	580		100		580	260	740	780	820
Skeletonema costatum	20		20		40		140	20	120		13980		660	1440	20	40	80
Thalassiosira condensata	0		0		0		0	0	20		40		0	0	0	0	40
Thalassiosira gravida	0		0		0		0	0	20		20		0	40	0	0	0
Thalassiothrix nitzschiodes	0		0		0		0	60	0		0		0	0	20	0	20
Acartia sp.	80		20		0		60	120	80		0		0	20	0	0	100
Distephanus speculum	360		40		200		380	580	440		20		220	460	1700	720	400
Eutreptia sp.	320		0		60		7220	40	220		280		0	100	60	460	680
Helicostomella sp.	60		40		20		140	80	60		0		20	60	20	20	80
Mesodinium rubrum	14960		6800		2280		5500	6060	6220		440		1080	8120	1640	4160	1260
Tintinnids	100		180		140		1520	2080	340		160		680	340	40	180	1060
Tintinnopsis campanula	0		0		0		0	0	20		0		0	40	0	0	80

DATE: 06- 09- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	0		0		0		0	40	100		0		0	0	20	0	0
Ceratium longipes	20		0		20		0	0	0		0		40	40	20	0	0
Ceratium minutum	1540		1160		1660		1680	2840	4620		260		980	540	2000	7280	60
Dinophysis acuminata	40		60		20		220	60	140		60		260	140	60	340	220
Dinophysis norvegica	20		40		60		40	40	40		20		60	0	160	80	20
Dinophysis rotundata	20		0		40		0	0	0		0		0	0	40	60	0
Dinophysis sp.	0		0		140		20	0	0		0		0	0	40	0	0
Gonyaulax spinifera	0		0		0		0	0	20		0		0	0	40	0	20
Gyrodinium sp.	20		40		80		80	20	120		40		0	0	40	20	120
Peridinium sp.	120		220		200		500	1240	1080		80		240	140	120	6680	320
Peridinium triqueta	20		0		40		140	220	380		0		0	40	20	680	0
Scrippsiella trochoidea	40		40		20		20	680	380		20		0	0	0	660	0
Actinoptychus undulatus	0		0		0		0	20	0		0		0	20	0	0	0
Cerataulina pelagica	0		0		0		60	0	0		100		0	100	0	0	20
Chaetoceros constrictus	0		0		0		40	20	0		20		40	0	0	0	60
Chaetoceros decipiens	0		0		0		20	0	0		0		20	0	0	0	20
Chaetoceros laciniosus	0		0		0		20	40	0		40		40	60	20	0	60
Chaetoceros simplex	0		0		0		60	0	40		0		80	20	0	0	40
Chaetoceros sp.	0		0		0		20	40	20		60		80	0	160	120	120
Corethron criophilum	0		20		0		40	20	20		0		20	0	0	0	20
Coscinodiscus sp.	0		0		20		0	20	20		0		0	0	0	0	0
Ditylum brightwelli	0		20		0		20	0	0		40		20	0	40	0	40
Guinardia flaccida	0		20		0		740	80	0		560		420	340	0	0	540
Gyrosigma littorale	0		0		0		20	0	0		0		0	0	0	0	0
Gyrosigma tennuissimum	0		0		0		0	20	0		0		0	0	0	0	0
Leptocylindrus danicus	20		0		20		60	0	0		80		240	40	0	0	20
Leptocylindrus minimus	20		100		100		200	60	20		180		340	240	120	0	320
Lycmophora lyngbyei	0		0		0		20	0	40		20		20	80	0	0	0
Nitzschia closterium	40		0		100		40	60	20		0		360	80	80	80	120
Nitzschia pseudodelicatissima	20		120		280		200	340	440		300		240	80	260	1080	80
Nitzschia pungens	0		0		40		20	0	0		0		40	60	0	0	0
Pleurosigma angulatum	0		20		20		20	0	0		0		20	0	0	0	20
Pleurosigma formosum	0		0		0		20	0	0		0		20	0	0	0	0
Pleurosigma sp.	0		0		0		0	0	20		0		0	0	0	0	0
Rhizosolenia delicatula	20		40		0		820	60	0		620		1620	900	0	120	2740
Skeletonema costatum	0		20		40		60	40	20		6980		1980	2260	20	40	0
Thalassiosira gravida	0		0		0		0	0	20		20		40	0	0	0	0
Thalassiosira sp.	0		20		0		20	0	0		0		0	0	0	0	0
Acartia sp.	0		60		0		0	0	40		0		20	0	20	20	20
Distephanus speculum	240		40		80		1320	300	320		200		420	580	180	400	620
Eutreptia sp.	20		0		0		60	0	0		980		20	40	0	20	60
Helicostomella sp.	0		20		0		20	0	20		0		0	0	0	0	20

STATION NUMBERS																
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Mesodinium rubrum	1640		1020		500		440	1700	840		120		940	700	4100	6600	1200
Notholca sp.	0		0		0		0	0	20		20		0	0	0	0	0
Tintinnids	700		120		400		140	140	220		20		20	280	100	520	1160
Tintinnopsis campanula	0		20		0		0	0	0		0		0	0	0	20	0

DATE: 13- 09- 89 DEPTH: SURFACE

STATION NUMBERS																	
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Alexandrium fundyense	2320		840		3800		2400	12720	5120		120		160	40	1920	120	60
Alexandrium (duplet)	240		80		360		400	880	480		40		0	0	200	20	0
Alexandrium (quadruplet)	0		0		20		0	0	0		0		0	0	0	0	0
Ceratium fusus	0		0		0		200	0	0		0		0	0	0	0	0
Ceratium longipes	240		120		20		0	0	80		40		0	0	40	200	0
Ceratium minutum	0		75080		68540		81600	124040	153400		2240		9360	2580	128920	47320	540
Ceratium tripos	80		40		80		100	160	80		0		0	20	0	0	0
Cochlodinium sp.	0		0		80		0	0	80		0		0	0	0	0	0
Dinophysis acuminata	80		240		420		400	160	320		80		120	200	480	80	320
Dinophysis acuta	0		0		0		0	80	80		0		0	0	0	0	0
Dinophysis norvegica	0		80		120		200	480	0		20		120	20	0	100	20
Dinophysis rotundata	0		160		0		100	320	80		0		40	80	160	60	0
Dinophysis sp.	0		0		80		100	0	0		0		40	20	0	0	40
Gonyaulax spinifera	400		160		460		600	960	2320		0		120	0	7400	100	20
Gyrodinium aureolum	7040		2240		8140		5700	29380	6880		120		520	60	6040	1860	0
Gyrodinium sp.	1360		720		1580		2000	2480	3520		60		200	60	1520	280	160
Peridinium conicum	0		0		60		0	0	0		40		0	20	0	0	0
Peridinium excentricum	80		0		0		0	160	0		0		0	0	0	0	0
Peridinium ovatum	0		40		0		0	0	400		0		0	0	0	0	0
Peridinium sp.	4720		2240		3560		5300	11200	10640		220		640	240	4600	1820	100
Peridinium triqueta	560		280		200		300	1600	640		60		160	20	440	180	0
Scrippsiella trochoidea	1680		640		5020		1900	14800	10080		60		280	20	5480	440	20
Biddulphia obtusa	0		40		0		0	0	0		0		0	0	0	0	0
Cerataulina pelagica	240		160		0		600	0	0		860		1280	420	0	0	200
Chaetoceros compressus	160		0		0		300	0	240		20		0	0	0	0	0
Chaetoceros constrictus	0		240		0		200	320	400		80		120	100	0	20	0
Chaetoceros convolutus	0		0		0		0	80	0		0		0	0	0	0	0
Chaetoceros debilis	0		80		0		100	160	160		140		120	160	0	40	80
Chaetoceros decipiens	0		80		0		100	80	0		0		0	0	0	20	0

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Chaetoceros laciniosus	240		160		0		300	240	320		120		160	80	0	60	120
Chaetoceros lorenzianus	0		0		0		0	0	80		0		0	0	0	0	0
Chaetoceros simplex	80		0		0		100	0	160		260		200	300	0	0	80
Chaetoceros socialis	480		160		0		600	800	480		320		1320	500	40	0	420
Chaetoceros sp.	320		560		20		1500	400	480		40		160	20	240	220	160
Chaetoceros teres	0		0		0		0	160	0		0		0	0	0	0	0
Corethron criophilum	160		80		0		100	240	0		60		120	40	0	100	60
Coscinosira polychorda	0		120		0		200	80	160		60		80	0	80	80	0
Detonula cystifera	0		0		0		0	80	0		20		160	20	0	0	0
Ditylum brightwelli	160		240		120		300	480	240		20		80	80	80	420	20
Grammatophora marina	0		0		20		0	0	0		20		0	0	0	0	0
Guinardia flaccida	0		0		0		1400	0	320		1680		2200	2680	0	0	4740
Gyrosigma littorale	0		0		0		0	0	80		0		0	40	0	0	0
Leptocylindrus danicus	0		40		0		0	0	0		160		160	420	0	20	0
Leptocylindrus minimus	480		320		0		1300	400	400		2040		1080	2180	0	60	2100
Lycmophora lyngbyei	0		0		180		0	240	0		140		40	200	40	60	0
Nitzschia closterium	160		280		120		300	80	0		420		640	280	0	200	200
Nitzschia pseudodelicatissima	97920		179520		114240		37540	150140	143620		1540		7400	580	73440	117500	460
Nitzschia pungens	80		40		0		100	0	80		480		600	1000	0	80	540
Nitzschia seriata	80		0		0		0	0	0		0		0	0	0	0	20
Pleurosigma strigosum	0		0		20		0	0	0		0		0	0	0	0	0
Rhizosolenia delicatula	0		40		100		2000	160	0		6700		12520	11180	0	0	13420
Rhizosolenia fragillima	0		0		0		0	80	0		0		0	0	0	0	0
Skeletonema costatum	114240		146880		42440		70180	202360	323140		4060		13040	640	204000	218680	0
Thalassiosira condensata	0		240		0		0	160	0		320		40	20	0	0	0
Thalassiosira decipiens	0		280		0		0	0	240		40		0	20	240	60	0
Thalassiosira gravida	1520		4040		0		5400	3120	7520		160		1360	280	800	6360	240
Thalassiosira nordenskioeldii	0		0		0		300	0	160		0		0	0	0	0	0
Thalassiosira sp.	80		0		0		400	80	320		40		40	0	0	0	0
Thalassiothrix nitzschiodes	160		80		80		0	80	400		80		80	0	80	100	20
Acartia sp.	160		0		20		200	80	240		0		0	0	0	0	0
Brachionus sp.	0		0		0		0	80	0		0		0	0	0	0	0
Distephanus speculum	240		40		0		400	240	160		540		680	660	40	260	700
Eutreptia sp.	0		0		20		0	0	160		0		0	40	0	0	60
Helicostomella sp.	0		0		40		0	400	160		0		0	0	0	20	0
Mesodinium rubrum	19920		1200		11020		2900	28000	15440		2100		6440	460	2520	5100	10520
Tintinnids	2000		960		1060		1700	2240	960		460		800	200	720	700	520
Tintinnopsis campanula	0		0		0		0	80	80		0		0	0	80	40	20

DATE: 20- 09- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	1600		840		8840		900	16320			60		1260	20	540	70180	100
Alexandrium (duplet)	40		80		560		80	1640			0		0	0	20	9800	0
Alexandrium (planozygote)	0		0		20		0	0			0		0	0	0	0	0
Ceratium fusus	0		0		20		0	0			0		0	0	20	0	0
Ceratium longipes	20		0		20		0	0			0		0	0	80	0	0
Ceratium minutum	109340		47320		169720		26980	205640			5300		8760	10140	57120	522240	7520
Ceratium tripos	40		0		0		0	0			0		0	0	0	0	20
Dinophysis acuminata	240		80		360		120	4880			0		140	60	160	1640	100
Dinophysis acuta	20		0		0		0	0			0		0	0	0	0	0
Dinophysis norvegica	300		140		540		40	1640			20		60	40	300	0	80
Dinophysis rotundata	0		40		140		0	0			0		0	0	40	0	20
Dinophysis sp.	80		60		60		20	0			40		0	60	20	3260	100
Gonyaulax spinifera	80		0		120		40	0			0		0	0	0	0	0
Gyrodinium aureolum	3880		2580		37540		2160	31000			40		0	260	1420	75080	160
Gyrodinium sp.	600		480		520		240	6520			80		40	60	180	3260	360
Peridinium conicum	0		60		20		0	0			0		40	0	80	3260	0
Peridinium depressum	0		0		0		40	0			0		0	0	0	0	0
Peridinium ovatum	60		0		0		0	0			0		0	20	0	0	0
Peridinium sp.	2960		1620		6900		400	8160			120		200	200	1120	27740	400
Peridinium triqueta	100		20		260		80	0			0		0	0	80	3260	80
Scrippsiella trochoidea	120		180		940		100	8160			20		100	80	160	16320	0
Cerataulina pelagica	0		40		20		20	0			20		0	20	40	0	0
Chaetoceros compressus	20		0		0		0	0			0		0	0	20	0	0
Chaetoceros constrictus	40		0		0		20	0			0		0	0	40	0	0
Chaetoceros debilis	0		20		60		40	0			0		20	0	140	0	0
Chaetoceros decipiens	0		20		20		0	0			0		0	20	0	0	0
Chaetoceros laciniosus	40		20		60		20	1640			0		20	0	40	1640	0
Chaetoceros simplex	20		0		0		0	0			0		80	0	0	0	20
Chaetoceros socialis	80		40		40		20	0			0		0	0	180	0	0
Chaetoceros sp.	100		100		100		100	1640			40		0	40	400	3260	60
Corethron criophilum	20		40		40		40	0			0		0	20	0	0	20
Coscinodiscus sp.	0		20		0		20	0			0		0	20	20	0	20
Coscinosira polychorda	0		20		100		0	0			0		40	0	80	0	0
Ditylum brightwelli	120		200		360		180	3260			100		120	140	300	0	0
Guinardia flaccida	80		340		60		960	0			420		360	460	0	0	2860
Gyrosigma littorale	0		0		0		40	0			0		0	0	0	0	0
Leptocylindrus minimus	80		100		20		40	0			200		380	420	60	0	440
Nitzschia closterium	320		220		180		220	0			280		700	400	120	1640	200
Nitzschia pseudodelicatissima	2120		4240		2880		960	3260			1020		4160	1240	16320	16320	420
Nitzschia pungens	0		20		0		40	0			0		60	40	60	0	20
Pleurosigma angulatum	0		20		0		0	0			0		20	0	20	0	0
Rhizosolenia delicatula	80		20		20		40	0			60		100	140	0	0	60

Rhizosolenia shrubsolei	0	0	0	20	0	20	0	20	0	0	40
Skeletonema costatum	16040	53860	50600	13040	45700	3240	7220	6220	106080	106080	360
Synedra sp.	20	0	0	0	0	0	0	0	0	0	0
Thalassiosira condensata	0	0	80	0	0	0	40	0	60	0	0
Thalassiosira gravida	420	740	460	260	6520	100	600	100	880	1640	40
Thalassiosira sp.	0	0	60	20	0	0	0	20	0	0	0
Thalassiothrix nitzschiodes	120	0	80	80	0	20	20	120	20	1640	20
Acartia sp.	0	0	0	120	0	0	0	20	20	0	40
Brachionus sp.	40	0	20	0	0	0	0	0	20	0	0
Distephanus speculum	60	20	20	100	0	80	0	100	60	0	300
Euglena sp.	40	0	40	0	0	0	300	0	100	3260	0
Eutreptia sp.	40	20	0	20	0	40	0	100	20	0	40
Favella sp.	0	0	0	20	0	0	0	0	0	0	0
Helicostomella sp.	140	60	140	0	0	0	0	40	80	0	80
Mesodinium rubrum	2060	700	4700	1020	8160	220	680	300	340	19580	2560
Notholca sp.	20	0	0	0	0	20	0	0	0	0	0
Tintinnids	1060	360	1660	620	1640	180	240	160	280	3260	260
Tintinnopsis campanula	40	40	20	20	0	0	60	20	40	0	0

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STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	40		0		0		0	0	0		0		0	0	0		0
Ceratium minutum	3780		1420		1020		3660	2440	3660		1020		3020	1500	80		140
Ceratium tripos	0		0		0		0	40	0		0		0	0	0		0
Dinophysis acuminata	40		20		0		180	40	20		0		40	0	40		60
Dinophysis norvegica	60		0		0		0	20	0		0		80	0	0		0
Dinophysis rotundata	0		0		0		20	0	0		0		0	0	0		0
Dinophysis sp.	0		0		40		0	60	0		20		20	0	0		0
Gonyaulax spinifera	0		20		0		0	0	0		0		0	0	0		20
Gyrodinium aureolum	40		0		0		20	20	100		120		20	0	0		0
Gyrodinium sp.	120		40		40		40	80	20		0		40	0	140		80
Peridinium sp.	160		100		0		260	220	80		0		260	40	60		40
Peridinium triqueta	0		0		0		20	20	0		0		20	0	0		0
Prorocentrum micans	0		0		0		0	0	20		0		0	0	0		0
Scrippsiella trochoidea	0		0		0		60	0	0		0		20	0	0		0
Actinoptychus undulatus	0		0		0		60	0	40		0		0	0	20		0
Chaetoceros constrictus	0		0		0		0	20	0		0		0	0	0		0
Chaetoceros decipiens	0		20		0		0	0	0		0		0	0	0		0
Chaetoceros laciniosus	0		20		0		0	0	0		0		0	0	0		0
Chaetoceros simplex	0		0		0		40	20	0		0		0	0	20		0
Corethron criophilum	20		20		0		0	0	0		0		0	0	0		40
Coscinodiscus sp.	20		20		20		0	0	0		20		40	20	0		0
Ditylum brightwelli	20		80		20		40	40	60		20		0	20	40		40
Guinardia flaccida	80		0		0		100	40	160		0		320	80	0		100
Gyrosigma fasciola	0		0		0		20	0	0		0		0	0	0		0
Gyrosigma littorale	0		0		0		0	0	20		0		0	20	0		0
Leptocylindrus minimus	0		0		0		80	80	60		80		20	0	80		180
Nitzschia closterium	180		180		0		160	320	20		140		20	120	320		0
Nitzschia pseudodelicatissima	440		640		580		620	960	720		720		640	360	2100		180
Paralia sulcata	0		0		0		0	20	0		0		0	0	40		0
Pleurosigma angulatum	20		0		0		0	0	20		0		0	0	40		0
Rhizosolenia delicatula	0		0		0		20	0	0		0		20	0	0		0
Rhizosolenia hebetata	0		0		0		0	0	20		0		0	0	0		20
Rhizosolenia shrubsolei	0		0		0		0	0	20		0		0	0	0		0
Skeletonema costatum	660		1380		1360		660	840	1140		1240		1540	760	2000		140
Synedra sp.	0		0		0		20	0	0		0		0	0	0		0
Thalassiosira gravida	20		40		0		40	60	100		20		40	20	0		0
Thalassiosira sp.	0		0		40		60	60	60		20		40	0	40		0
Thalassiothrix nitzschiodes	20		80		0		0	60	100		40		60	20	120		0
Distephanus speculum	20		20		0		40	0	20		20		0	20	0		0
Euglena sp.	0		0		0		20	0	0		0		0	0	0		0
Eutreptia sp.	20		0		0		160	60	20		40		0	20	0		0
Helicostomella sp.	20		0		0		40	0	0		0		0	0	0		0

STATION NUMBERS																
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Mesodinium rubrum	860		60		60		880	380	120		0		100	0	40		520
Tintinnids	340		220		100		60	100	120		80		20	40	80		340
Tintinnopsis campanula	0		0		0		0	0	20		0		0	0	0		0

DATE: 05- 10- 89 DEPTH: SURFACE

STATION NUMBERS																	
ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Ceratium minutum			440		400		980	300	420		320		480	420	400	700	60
Dinophysis acuminata			60		20		140	80	40		40		40	0	20	20	0
Dinophysis sp.			0		0		20	0	0		0		0	0	0	0	0
Gyrodinium sp.			0		40		60	40	20		0		40	20	20	40	20
Peridinium sp.			20		20		40	60	20		40		40	80	0	20	0
Prorocentrum micans			0		0		20	0	0		0		0	0	0	0	0
Actinoptychus undulatus			20		40		0	0	40		0		0	0	0	0	0
Biddulphia regia			20		0		0	0	0		0		0	0	0	0	0
Chaetoceros debilis			0		0		0	0	20		0		0	0	0	0	0
Chaetoceros furcellatus			0		0		0	0	20		0		0	0	0	0	0
Chaetoceros simplex			40		0		0	40	60		20		60	20	0	0	60
Chaetoceros socialis			0		0		0	20	0		0		0	0	0	0	0
Corethron criophilum			0		20		40	0	20		0		0	0	20	40	20
Coscinodiscus sp.			20		0		0	20	20		0		0	0	0	0	0
Ditylum brightwelli			20		60		20	40	20		20		0	0	120	40	0
Guinardia flaccida			0		0		0	40	40		0		20	0	0	0	0
Gyrosigma fasciola			0		0		20	0	20		0		0	0	160	0	20
Gyrosigma tennuissimum			0		0		20	0	0		0		0	0	0	0	20
Leptocylindrus minimus			20		120		0	60	0		180		100	100	320	80	20
Lycmophora lyngbyei			0		20		0	20	0		20		0	0	20	0	0
Navicula sp.			0		0		0	0	20		20		0	0	20	0	0
Nitzschia closterium			60		160		160	240	220		80		200	120	1380	260	20
Nitzschia pseudodelicatissima			280		500		60	420	580		520		520	100	5480	240	160
Paralia sulcata			0		0		0	0	20		0		0	0	20	0	0
Pleurosigma angulatum			0		0		20	0	0		0		0	0	20	0	0
Pleurosigma sp.			0		0		20	0	40		20		0	0	0	0	0
Skeletonema costatum			340		860		380	380	420		940		1140	480	5060	540	80
Thalassiosira condensata			20		80		0	40	20		100		0	40	0	20	40
Thalassiosira decipiens			0		20		0	20	0		20		100	0	40	0	0
Thalassiosira sp.			0		40		0	0	40		0		0	0	40	0	0
Thalassiothrix nitzschiodes			0		60		60	0	0		0		40	40	320	20	0
Acartia sp.			0		40		20	0	20		0		0	0	0	0	0
Distephanus speculum			20		20		20	20	20		0		0	20	40	20	20
Eutreptia sp.			40		0		40	0	0		0		40	80	0	0	20
Mesodinium rubrum			120		140		1820	240	140		260		40	500	280	60	400
Tintinnids			260		120		1180	160	80		160		80	200	80	220	60

DATE: 11- 10- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	0		20		0		0	0	0		0		40	0	0		0
Ceratium minutum	100		20		120		280	420	340		140		360	320	100		40
Dinophysis acuminata	0		0		0		40	20	0		0		20	0	0		0
Dinophysis acuta	0		0		0		0	0	20		0		0	0	0		0
Dinophysis norvegica	0		20		0		0	0	0		0		0	0	20		0
Gyrodinium aureolum	0		0		0		20	0	0		0		20	20	0		0
Gyrodinium sp.	20		0		0		40	0	20		0		20	0	0		60
Peridinium sp.	0		0		0		60	100	0		0		140	20	20		0
Prorocentrum micans	0		0		0		0	20	0		0		0	0	0		0
Achnanthes sp.	0		0		0		0	0	20		0		0	0	0		0
Actinoptychus undulatus	0		0		20		40	60	80		0		0	0	0		0
Chaetoceros debilis	0		0		0		20	0	0		0		0	0	0		0
Chaetoceros simplex	0		0		20		80	80	60		0		80	0	40		0
Corethron criophilum	0		40		0		40	0	0		20		0	0	20		0
Coscinosira polychorda	0		0		0		0	20	0		0		0	0	0		0
Ditylum brightwelli	0		20		0		0	0	40		40		20	0	100		0
Guinardia flaccida	0		20		0		0	0	0		0		0	0	0		0
Gyrosigma littorale	0		0		0		20	0	0		0		0	0	0		0
Gyrosigma tennuissimum	0		0		0		20	0	0		0		0	0	20		0
Leptocylindrus minimus	20		60		60		180	20	80		60		80	40	360		20
Lycmophora lyngbyei	0		0		0		20	0	0		0		0	0	0		0
Melosira sp.	0		0		0		20	0	0		0		0	0	0		0
Nitzschia closterium	0		260		40		60	280	160		40		200	20	800		20
Nitzschia pseudodelicatissima	40		440		240		280	220	340		240		480	120	2620		40
Pleurosigma sp.	0		0		0		0	20	0		0		40	0	20		0
Rhizosolenia delicatula	0		20		20		40	0	0		20		0	0	20		0
Rhizosolenia setigera	0		0		20		0	0	0		0		0	0	0		0
Skeletonema costatum	120		580		280		600	580	220		320		540	120	3180		240
Thalassiosira condensata	0		20		0		0	0	80		0		80	0	40		0
Thalassiosira decipiens	0		0		0		20	0	0		0		20	0	0		0
Thalassiosira gravida	0		0		0		0	20	0		0		0	0	20		0
Thalassiosira sp.	0		0		0		0	20	0		0		0	40	20		0
Thalassiothrix nitzschiodes	0		40		40		0	20	40		0		80	0	60		0
Acartia sp.	20		0		0		0	0	0		0		0	0	0		0
Distephanus speculum	0		40		20		60	120	60		0		60	0	20		0
Eutreptia sp.	0		0		0		20	20	0		20		20	0	180		0
Mesodinium rubrum	280		20		20		500	780	0		520		900	340	20		80
Notholca sp.	0		0		0		20	0	0		0		0	0	0		0
Tintinnids	120		60		80		20	200	0		160		120	120	40		60

DATE: 18- 10- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	0		40		20		0	0	0		0		0	0	120		0
Ceratium minutum	200		280		440		220	240	140		80		140	140	820		20
Dinophysis acuta	0		20		0		0	0	0		0		0	0	0		0
Gyrodinium aureolum	0		20		0		0	0	0		0		20	0	20		0
Gyrodinium sp.	20		0		40		0	20	20		0		40	40	0		20
Peridinium sp.	20		20		0		0	0	0		0		0	20	0		20
Actinoptychus undulatus	0		20		40		20	0	0		0		0	0	0		0
Chaetoceros debilis	20		20		0		0	0	0		0		0	0	20		0
Chaetoceros simplex	20		0		0		60	120	120		0		40	20	0		40
Corethron criophilum	20		0		0		60	20	40		20		0	0	20		0
Coscinodiscus sp.	0		0		0		0	0	20		20		0	0	40		20
Ditylum brightwelli	0		20		0		40	0	0		40		0	20	60		40
Leptocylindrus minimus	20		0		20		0	40	60		40		40	20	0		60
Navicula sp.	0		20		20		0	0	0		20		0	20	20		40
Nitzschia closterium	100		100		260		100	180	300		180		180	120	680		100
Nitzschia pseudodelicatissima	80		220		140		240	180	380		140		60	260	380		120
Pleurosigma strigosum	0		0		20		0	0	0		0		0	40	0		0
Rhabdonema adriaticum	0		0		0		20	0	0		0		0	0	0		0
Rhizololenia stolterfothii	0		80		20		180	0	0		0		0	0	0		0
Rhizosolenia delicatula	0		60		40		20	0	0		0		0	0	0		0
Rhizosolenia fragillima	0		0		20		0	0	0		0		20	0	0		0
Skeletonema costatum	300		240		260		400	260	340		200		440	320	360		220
Streptotheca thamensis	0		20		0		0	0	0		0		0	0	0		0
Thalassiosira condensata	0		20		0		20	20	20		40		40	0	0		0
Thalassiosira decipiens	0		0		0		20	40	0		0		0	0	0		0
Thalassiothrix nitzschiodes	0		20		20		0	0	20		0		20	20	20		0
Distephanus speculum	0		0		20		40	60	60		0		60	20	0		40
Eutreptia sp.	20		20		40		0	0	20		20		40	0	20		0
Mesodinium rubrum	240		0		260		20	120	0		160		180	80	0		160
Tintinnids	140		40		200		20	60	20		40		100	40	220		40

DATE: 25- 10- 89 DEPTH: SURFACE

STATION NUMBERS / ORGANISMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Alexandrium fundyense	0		40		0		0	0	0		0			0	80	20	0
Ceratium minutum	20		80		180		80	140	140		40			80	160	60	0
Dinophysis acuta	0		0		0		0	0	20		0			0	0	0	0
Dinophysis norvegica	0		0		20		0	20	20		0			0	0	0	0
Dinophysis sp.	0		0		0		0	20	0		0			0	0	0	0
Gonyaulax spinifera	0		0		0		0	20	0		0			0	0	0	0
Gyrodinium aureolum	20		0		40		0	180	80		40			20	0	20	0
Gyrodinium sp.	60		0		60		20	0	20		0			20	0	0	20
Peridinium sp.	0		0		20		0	100	20		0			0	0	20	0
Peridinium triqueta	0		0		0		0	20	0		0			0	0	0	0
Scrippsiella trochoidea	0		0		0		0	40	0		0			0	20	20	0
Actinoptychus undulatus	20		20		0		20	80	60		20			20	0	20	0
Biddulphia obtusa	0		0		20		0	0	0		0			0	0	0	0
Chaetoceros debilis	0		0		0		0	20	0		0			0	20	0	0
Chaetoceros laciniosus	0		20		0		0	0	20		0			0	0	0	0
Chaetoceros simplex	20		20		0		60	100	40		20			80	0	20	0
Corethron criophilum	0		0		0		80	60	60		0			20	0	20	60
Coscinodiscus sp.	0		20		0		0	0	0		0			0	0	0	0
Coscinosira polychorda	0		0		0		20	20	0		0			20	0	0	0
Ditylum brightwelli	0		0		20		80	20	40		20			40	40	0	20
Leptocylindrus danicus	0		0		0		20	0	0		60			20	20	0	0
Leptocylindrus minimus	20		40		0		0	20	0		20			20	100	0	0
Lycmophora lyngbyei	0		20		20		20	0	0		0			0	0	0	0
Navicula sp.	0		0		20		0	0	0		0			0	0	0	20
Nitzschia closterium	160		280		280		300	260	220		380			480	140	120	60
Nitzschia pseudodelicatissima	20		400		240		480	480	160		140			280	640	200	100
Nitzschia pungens	0		20		0		0	0	0		0			0	0	0	0
Pleurosigma strigosum	0		20		0		0	20	0		0			20	0	0	0
Rhizololenia stolterfothii	0		40		0		0	0	0		0			0	0	0	0
Rhizosolenia delicatula	0		60		80		20	60	40		0			20	0	20	0
Rhizosolenia setigera	0		0		20		0	0	0		0			0	20	0	0
Skeletonema costatum	120		220		260		500	220	120		440			340	220	160	60
Thalassiosira condensata	0		0		0		0	20	0		0			0	0	0	0
Thalassiosira decipiens	0		0		0		0	0	40		20			0	0	0	0
Thalassiosira gravida	0		0		20		20	0	0		0			0	0	0	0
Thalassiosira sp.	0		20		0		0	0	0		20			20	0	0	0
Thalassiothrix nitzschiodes	0		60		20		0	20	20		0			20	40	0	20
Acartia sp.	0		0		0		0	20	0		0			0	0	0	0
Distephanus speculum	60		0		40		80	200	100		40			60	20	40	20
Eutreptia sp.	0		0		40		0	0	0		0			0	0	0	0
Mesodinium rubrum	220		340		2240		320	880	20		400			260	0	100	0
Tintinnids	80		40		100		40	160	20		20			40	0	60	0

DATE: 07- 11- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Alexandrium fundyense	0		0		0		0	0	60		0		0	0	0	0	0
Ceratium minutum	60		60		100		40	100	120		40		260	140	140	240	0
Dinophysis acuminata	40		20		0		0	0	20		0		20	0	0	0	0
Dinophysis norvegica	0		0		0		20	0	0		0		0	0	20	20	0
Gyrodinium aureolum	0		40		0		0	0	120		20		60	20	0	120	0
Gyrodinium sp.	20		40		20		0	80	0		0		0	0	40	20	40
Peridinium sp.	0		20		0		80	0	40		0		40	0	20	100	40
Peridinium triqueta	0		0		60		40	20	0		20		20	0	120	20	0
Scrippsiella trochoidea	0		0		0		0	20	0		0		0	0	0	0	0
Actinoptychus undulatus	0		0		0		0	240	180		40		40	80	20	340	20
Chaetoceros convolutus	0		0		0		0	0	20		0		0	0	0	0	0
Chaetoceros debilis	0		0		20		20	0	0		0		40	20	0	60	0
Chaetoceros laciniosus	0		0		0		0	0	20		0		0	0	0	0	0
Chaetoceros simplex	0		0		0		60	20	0		20		60	20	0	0	0
Chaetoceros sp.	0		0		0		20	0	0		0		0	20	0	20	0
Corethron criophilum	0		20		20		20	20	60		20		40	40	0	0	40
Coscinodiscus sp.	0		20		0		20	0	0		0		20	0	20	0	0
Ditylum brightwelli	0		0		20		0	20	0		0		100	20	40	20	0
Gyrosigma fasciola	0		0		0		20	0	20		0		0	0	0	0	0
Leptocylindrus danicus	0		0		0		0	0	20		0		0	0	0	0	0
Leptocylindrus minimus	0		0		0		20	40	0		40		20	0	0	20	0
Navicula sp.	0		0		0		20	0	0		0		0	0	0	0	0
Nitzschia closterium	0		20		220		100	60	220		100		540	180	200	840	360
Nitzschia pseudodelicatissima	20		160		40		260	180	260		180		700	180	200	800	140
Rhizololenia stolterfothii	0		0		0		20	0	0		0		60	20	40	0	0
Rhizosolenia delicatula	20		40		40		0	0	60		40		100	0	60	260	20
Rhizosolenia hebetata	0		20		0		0	0	0		0		0	0	0	0	0
Rhizosolenia setigera	0		0		0		20	20	0		0		0	0	0	0	0
Skeletonema costatum	0		40		60		120	20	60		160		320	140	60	60	20
Thalassiosira baltica	0		0		0		0	20	0		0		0	0	0	0	0
Thalassiosira condensata	0		0		0		20	0	0		20		20	0	40	0	0
Thalassiosira decipiens	0		0		0		20	0	0		20		0	20	0	0	0
Thalassiosira gravida	0		0		20		0	20	0		0		0	0	0	0	0
Thalassiosira sp.	0		0		0		0	0	20		0		20	0	0	20	0
Thalassiothrix nitzschiodes	0		0		0		0	0	40		0		0	0	20	20	40
Acartia sp.	60		0		0		40	0	0		0		0	0	0	0	100
Distephanus speculum	40		80		160		420	280	180		60		420	240	120	160	940
Eutreptia sp.	20		20		20		0	0	0		20		40	0	40	0	0
Mesodinium rubrum	440		1100		1060		100	60	80		460		1020	260	360	1440	1960
Tintinnids	260		200		80		40	0	100		40		120	100	0	20	280

DATE: 20- 11- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Ceratium minutum	0		0		60		0	0	40		40		80	20	0		20
Gyrodinium aureolum	0		0		0		0	20	40		40		20	0	0		20
Gyrodinium sp.	20		0		40		0	0	20		20		40	0	0		20
Peridinium sp.	40		20		20		20	0	20		0		0	0	0		20
Peridinium triqueta	20		0		0		0	0	20		0		20	0	0		0
Actinoptychus undulatus	120		120		80		0	140	180		0		100	80	180		180
Cerataulina pelagica	0		0		0		20	0	0		0		0	0	0		0
Chaetoceros furcellatus	0		0		0		20	0	0		0		0	0	0		0
Chaetoceros simplex	0		0		0		0	0	20		0		0	0	20		0
Chaetoceros sp.	0		0		0		0	0	20		0		0	0	0		20
Corethron criophilum	0		40		0		0	20	40		20		0	20	20		40
Coscinodiscus sp.	0		0		0		0	40	0		0		0	0	0		0
Ditylum brightwelli	0		60		0		20	20	40		20		20	40	0		20
Grammatophora sp.	0		0		0		20	0	0		0		0	0	0		0
Leptocylindrus minimus	20		0		0		20	20	0		20		0	0	0		0
Lycmophora lyngbyei	0		0		0		0	0	20		0		100	0	0		0
Navicula sp.	0		20		20		0	0	0		60		40	20	20		20
Nitzschia closterium	140		100		500		1740	600	700		160		880	720	440		360
Nitzschia pseudodelicatissima	120		80		160		1240	440	200		180		260	220	480		200
Pleurosigma angulatum	0		0		0		40	0	0		0		0	0	0		20
Pleurosigma sp.	0		0		20		20	0	0		0		20	20	0		0
Rhizololenia stolterfothii	0		0		0		0	20	0		0		0	0	0		0
Rhizosolenia delicatula	0		0		60		20	20	20		40		0	20	0		20
Skeletonema costatum	0		40		140		600	60	80		200		100	20	260		0
Thalassiosira baltica	0		0		0		0	20	0		0		0	0	0		0
Thalassiosira condensata	0		0		0		0	40	20		0		0	0	0		0
Thalassiosira decipiens	0		0		0		0	40	0		0		0	0	0		0
Thalassiosira sp.	0		0		0		0	0	40		0		0	0	0		0
Thalassiothrix nitzschiodes	0		0		20		40	0	0		20		0	0	40		0
Distephanus speculum	40		20		0		120	0	20		20		0	60	20		80
Eutreptia sp.	20		20		0		0	40	0		20		0	0	20		20
Mesodinium rubrum	300		540		160		40	100	40		1460		100	40	140		360
Tintinnids	20		80		300		220	20	0		80		240	100	40		120

DATE: 12- 12- 89 DEPTH: SURFACE

STATION NUMBERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ORGANISMS																	
Ceratium minutum	100		120		0		20	0	20		0		0	0	0		0
Gyrodinium sp.	20		0		0		0	0	0		0		0	0	0		0
Peridinium sp.	20		0		0		0	0	0		20		0	0	0		20
Actinoptychus undulatus	0		40		20		0	40	40		20		40	40	0		0
Chaetoceros simplex	0		0		20		0	0	0		0		0	0	0		0
Corethron criophilum	20		0		20		0	0	0		80		20	0	0		0
Coscinodiscus sp.	0		0		20		0	20	0		0		0	0	0		0
Coscinosira polychorda	0		0		20		0	0	20		0		40	0	20		0
Ditylum brightwelli	0		20		20		20	20	60		20		60	20	20		0
Gyrosigma baltica	0		0		0		20	0	0		0		0	0	0		0
Leptocylindrus minimus	0		0		0		20	0	40		0		20	0	20		20
Lycmophora lyngbyei	0		0		0		0	20	0		0		0	40	0		0
Melosira ambigua	0		0		20		0	0	0		0		0	0	0		0
Melosira sp.	0		0		20		20	0	0		0		0	0	0		0
Navicula sp.	0		0		20		20	80	0		0		20	0	0		0
Nitzschia closterium	780		420		160		260	180	240		560		80	120	520		520
Nitzschia pseudodelicatissima	800		580		120		980	0	740		620		280	40	1740		480
Pleurosigma strigosum	0		0		20		20	0	20		0		0	0	0		0
Rhizosolenia delicatula	0		20		0		0	40	40		0		0	0	40		0
Rhizosolenia setigera	20		0		0		0	20	20		0		0	0	0		0
Skeletonema costatum	100		140		40		60	0	100		40		0	40	580		120
Thalassiosira condensata	0		20		20		20	0	0		0		20	0	0		0
Thalassiosira decipiens	20		0		0		0	0	0		20		0	0	0		20
Thalassiosira gravida	20		20		0		0	0	0		0		0	0	0		0
Thalassiosira sp.	0		20		0		0	0	0		20		0	20	0		0
Thalassiothrix nitzschiodes	0		0		0		20	0	0		20		20	40	0		20
Eutreptia sp.	0		0		0		0	60	0		0		0	0	40		0
Mesodinium rubrum	40		0		40		0	0	100		80		40	80	0		60
Tintinnids	20		40		0		0	0	40		80		20	40	40		40

APPENDIX 5. List of marine microalgal species observed for the first time during 1988 and 1989.

Ceratium tripos
Cochlodinium sp.
Peridinium excentricum
Peridinium willei
Phalacroma pulchellum
Achnanthes sp.
Amphiprora sp.
Asterionella formosa
Bacteriastrum sp.
Cerataulina bergonii
Cerataulina sp.
Chaetoceros divorsus
Chaetoceros radicans
Chaetoceros subtilis
Eucampia zoodiacus
Fragilaria oceanica
Fragilaria striatula
Grammatophora sp.
Rhabdonema sp.
Rhizosolenia gracillima
Streptotheca thamensis
Striatella sp.
Surirella sp.
Synedra ulna
Tabellaria sp.
Thalassiothrix longissima
Dinobryon sp.
Eutintinnus sp.
Proplectella sp.
Tintinnopsis sacculus